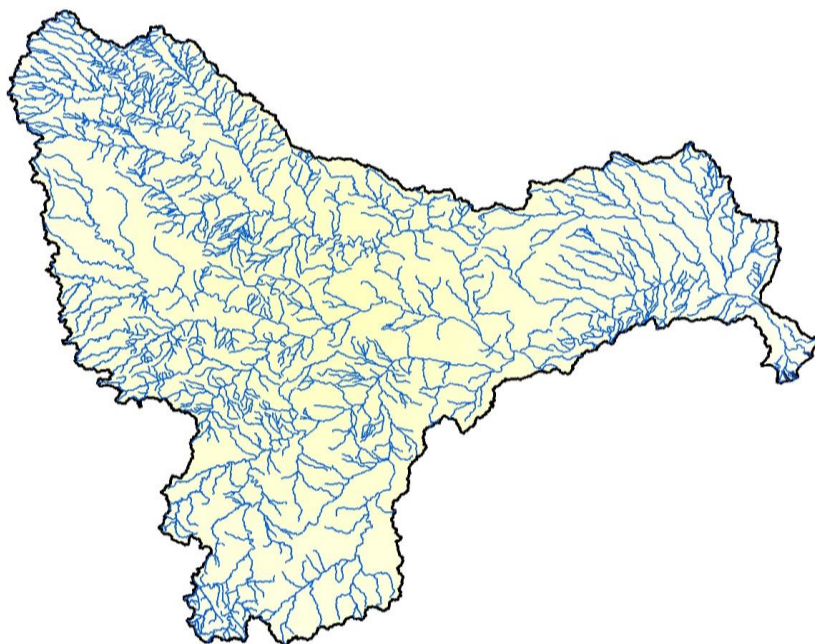




National River Conservation Directorate
Ministry of Jal Shakti,
Department of Water Resources,
River Development & Ganga Rejuvenation
Government of India



KRISHNA

RIVER BASIN ATLAS

September 2025



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National River Conservation Directorate (NRCD)

The National River Conservation Directorate, functioning under the Department of Water Resources, River Development & Ganga Rejuvenation, and Ministry of Jal Shakti providing financial assistance to the State Government for conservation of rivers under the Centrally Sponsored Schemes of 'National River Conservation Plan (NRCP)'. National River Conservation Plan to the State Governments/ local bodies to set up infrastructure for pollution abatement of rivers in identified polluted river stretches based on proposals received from the State Governments/ local bodies.

www.nrzd.nic.in

Centres for Krishna River Basin Management Studies (cKrishna)

The Center for Krishna River Basin Management Studies (cKrishna) is a Brain Trust dedicated to River Science and River Basin Management. Established in 2024 by NIT Warangal and NITK Surathkal, under the supervision of cGanga at IIT Kanpur, the center serves as a knowledge wing of the National River Conservation Directorate (NRCD). cKrishna is committed to restoring and conserving the Krishna River and its resources through the collation of information and knowledge, research and development, planning, monitoring, education, advocacy, and stakeholder engagement.

www.ckrishna.org

Centre for Ganga River Basin Management and Studies (cGanga)

cGanga is a think tank formed under the aegis of NMCG, and one of its stated objectives is to make India a world leader in river and water science. The Centre is headquartered at IIT Kanpur and has representation from most leading science and technological institutes of the country. cGanga's mandate is to serve as think-tank in implementation and dynamic evolution of Ganga River Basin Management Plan (GRBMP) prepared by the Consortium of 7 IITs. In addition to this, it is also responsible for introducing new technologies, innovations, and solutions into India.

www.cganga.org

Acknowledgment

This report is a comprehensive outcome of the project jointly executed by NIT Warangal (Lead Institute) and NITK Surathkal (Fellow Institute) under the supervision of cGanga at IIT Kanpur. It was submitted to the National River Conservation Directorate (NRCD) in 2024. We gratefully acknowledge the individuals who provided information and photographs for this report.

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PREFACE

In an era of unprecedented environmental change, understanding our rivers and their ecosystems has never been more critical. This report aims to provide a comprehensive overview of our rivers, highlighting their importance, current health, and the challenges they face. As we explore the various facets of river systems, we aim to equip readers with the knowledge necessary to appreciate and protect these vital waterways.

Throughout the following pages, you will find an in-depth analysis of the principles and practices that support healthy river ecosystems. Our team of experts has meticulously compiled data, case studies, and testimonials to illustrate the significant impact of rivers on both natural environments and human communities. By sharing these insights, we hope to inspire and empower our readers to engage in river conservation efforts.

This report is not merely a collection of statistics and theories; it is a call to action. We urge all stakeholders to recognize the value of our rivers and to take proactive steps to ensure their preservation. Whether you are an environmental professional, a policy maker, or simply someone who cares about our planet, this guide is designed to support you in your efforts to protect our rivers.

We extend our heartfelt gratitude to the numerous contributors who have generously shared their stories and expertise. Their invaluable input has enriched this report, making it a beacon of knowledge and a practical resource for all who read it. It is our hope that this report will serve as a catalyst for positive environmental action, fostering a culture of stewardship that benefits both current and future generations.

As you delve into this overview of our rivers, we invite you to embrace the opportunities and challenges that lie ahead. Together, we can ensure that our rivers continue to thrive and sustain life for generations to come.

Centers for Krishna River Basin Management and Studies (cKrishna)

NIT Warangal, NITK Surathkal

ACRONYMS AND ABBREVIATIONS

BCM	:	Billion Cubic Meter
KRB	:	Krishna River Basin
cKrishna	:	Centre for Krishna River Basin Management and Studies
Cumec	:	Cubic meter per second
CWC	:	Central Water Commission
DEM	:	Digital Elevation Model
GIS	:	Geographic Information System
Km	:	Kilometer
LGD	:	Local Government Directory
m	:	Meter
MCM	:	Million Cubic Meter
mm	:	Millimeter
NRSC	:	National Remote Sensing Centre
Sol	:	Survey of India
Sq. Km.	:	Square Kilometer
WRIS	:	Water Resources Information System

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INTRODUCTION

The Krishna River basin lies mainly in the four states Karnataka, Maharashtra, Telangana and Andhra Pradesh. The Krishna basin has a tropical climate with average annual rainfall varying from 450 - 3200 mm. This river basin has seven major sub basins. The present volume is a first attempt to map the rich river network of the Krishna River basin in as fine a detail as possible. Much of the information contained in this River Atlas is not available in any other document and was created in original from available earth observation satellite images with ancillary data and image processing tools and software on the GIS platform. Naturally, there may be shortcomings in some of the maps herein, including missing small streams, which can be expected to be duly refined and included in later versions. Also, a river atlas is often useful in conjunction with other natural resources and anthropogenic information such as the distribution of rainfall and other climatic data, other waterbodies, forest cover, elevations, soil types, other physiographic information, land use, tourist and pilgrimage centers, and infrastructure including roads and highways. Such other relevant information is also expected to be processed, assembled, and included later in a fuller version of this Atlas. Meanwhile, it is hoped that this Atlas will provide a useful window to the Krishna River basin river's resources.

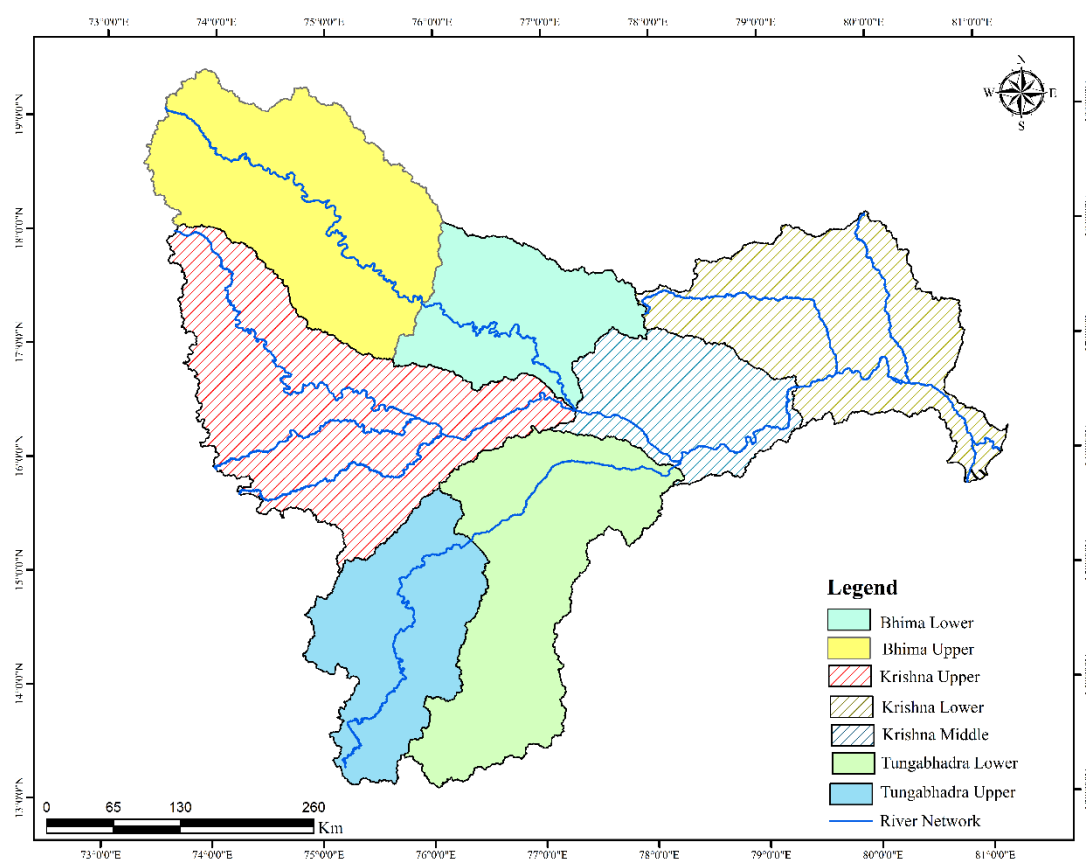
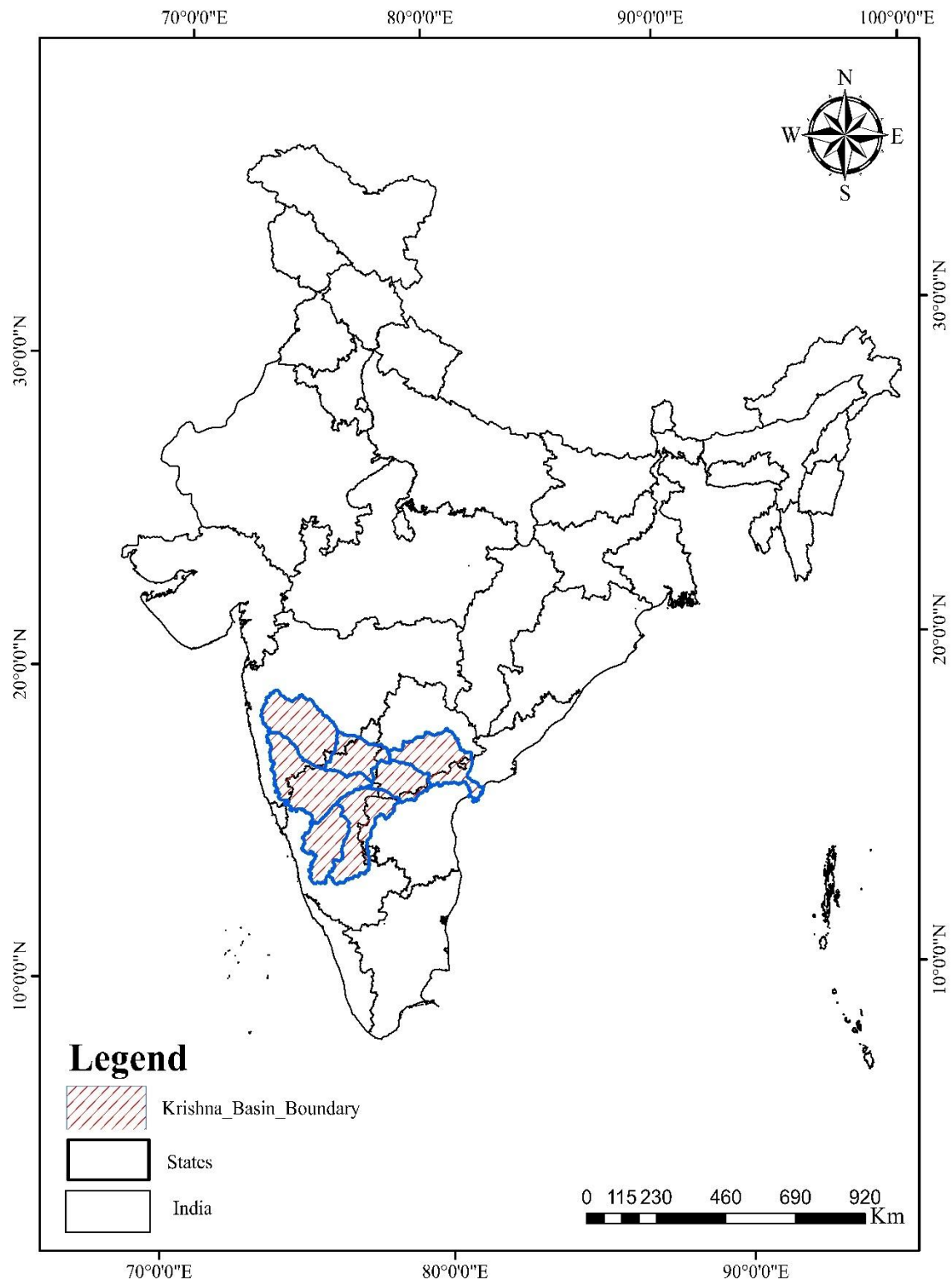


Figure 1: Major Sub-Basins in Krishna Basin

Table 1: Krishna Basin Salient Features

S No	Particulars	Details
1	State Extent	Maharashtra (69,425 km ²), Karnataka (113,271 km ²), Telangana (50,177 km ²), Andhra Pradesh (25,772 km ²)
2	Total Geographical Area (sq. km.)	254750.14
2.1	Hill Area (Reference Year 2018) (sq. km.)	-
2.2	Plain Area (Reference Year 2018) (sq. km.)	-
3	Forest Area (Reference Year 2018)(sq. km.)	-
4	Area contributing to Krishna Basin(sq. km.)	258,948 (Drainage area)
5	Percentage area contributing to Krishna Basin	-
6	Districts (per Census 2011)	46
7	Towns (per Census 2011)	1115
8	Total Population (per Census 2011)	66,341,683
9	Percentage of population contribution in Krishna Basin	The population of the Krishna River Basin is about 5.48% of India's total population.
10	Gram Panchayats	-
11	Villages (per Census 2011)	27882
12	Average Annual Rainfall (mm)	450 - 3200
13	Average Temperature Range (°C)	Minimum: 20.52°C Maximum: 32.14°C
14	Major Rivers (Inter and Intra-state)	Bhima, Tungabhadra, Musi, Munneru, Ghataprabha, Malaprabha and Krishna
15	Number of Major Basins	7 (Bhima Upper, Bhima Lower, Krishna Upper, Krishna Middle, Krishna Lower, Upper Tungabhadra, Lower Tungabhadra)
16	Number of Water Resources Structures	Dams: 660 Barrages:12 Weirs:58 Anicuts:6 Lifts:119 Power houses: 35
17	Highest Dam	Almatti Dam (524.26 m MSL)
18	Longest Dam	Nagarjuna Sagar Dam (1,450 m)
19	Highest Barrage	Jurala Barrage (1,045 m MSL)
20	Longest Barrage	Prakasam Barrage (1,223.5 m)
21	Number of HE Projects (> 25 MW)	30
22	Number of Ground Water Observationwells	1957
23	Number of CWC Sites	47
24	Water Tourism and Water Sports Sites	57

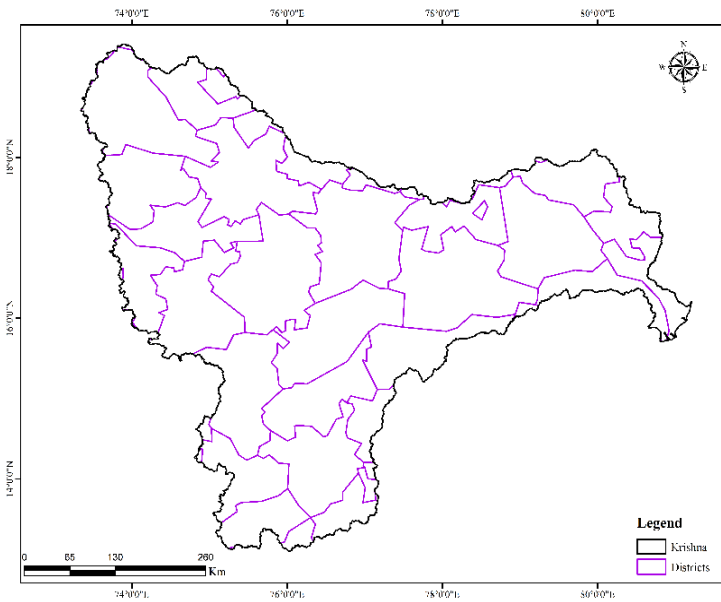
INDIA: ADMINISTRATIVE DIVISIONS (GEOGRAPHICAL)



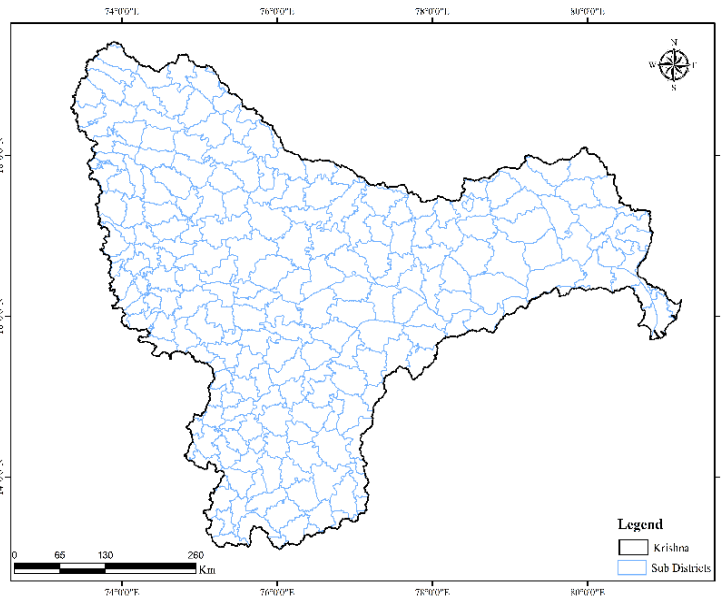
Source: SOI

Figure 2: India Administrative Divisions (Geographical)

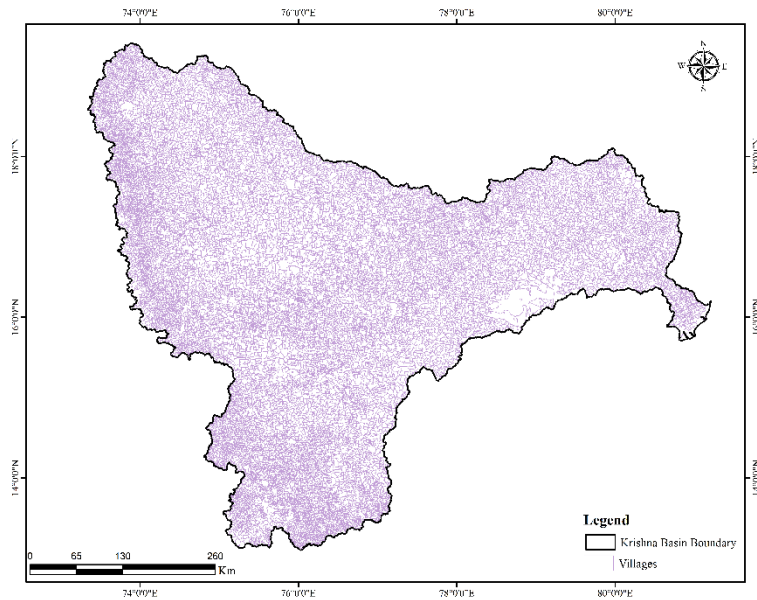
KRISHNA BASIN: ADMINISTRATIVE DIVISIONS (GEOGRAPHICAL)



Districts: 40



Sub-Districts: 266



Villages: 27882

Source: LGD

Figure 3: Krishna Basin Administrative Divisions (Geographical)

KRISHNA BASIN AND ITS COMMAND AREA & CANAL NETWORK

Canal Projects

Krishna Delta System	Andhra Pradesh and Telangana
Tungabhadra Left and Right Bank Canals	Karnataka and Andhra Pradesh
Ghataprabha and Malaprabha Canals	Karnataka
Koyna and Bhima Canal Systems	Maharashtra
Nagarjuna Sagar Canals	Andhra Pradesh and Telangana

Command Area

Andhra Pradesh & Telangana	37,466.38 sq. km
Maharashtra	28,662.59 sq. km
Karnataka	30,771.77 sq. km

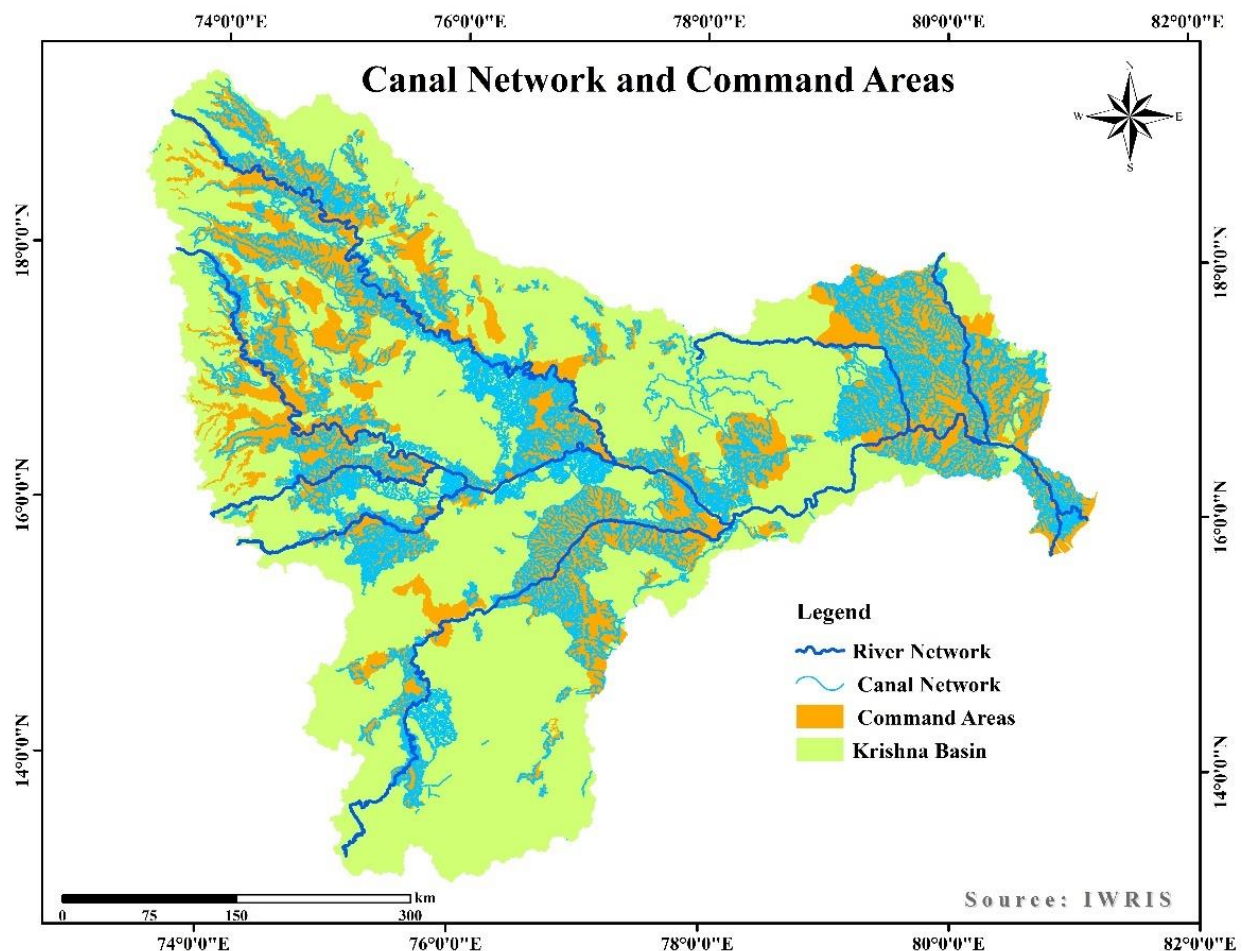
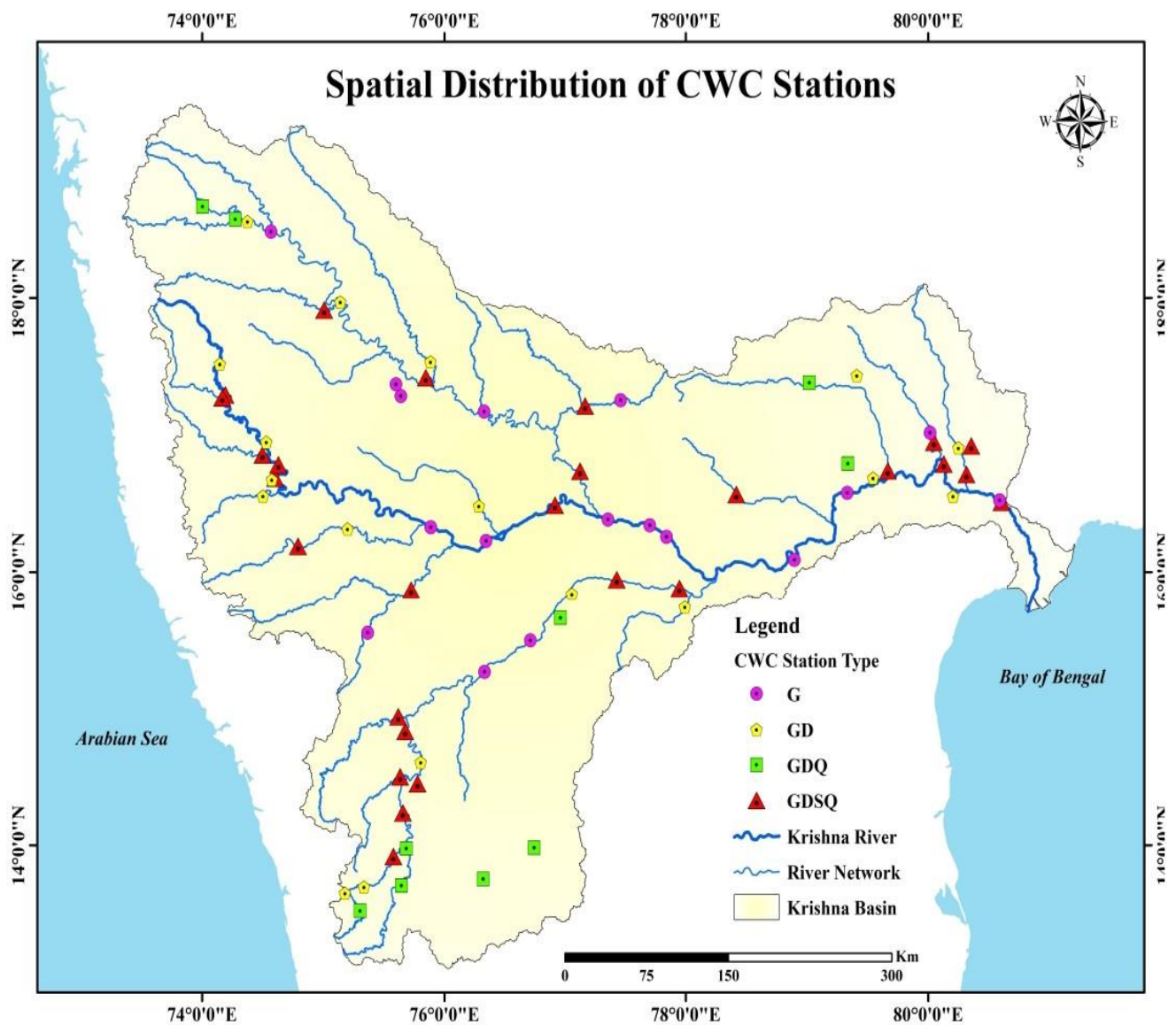


Figure 4: Krishna Basin Command Area and Canal Network

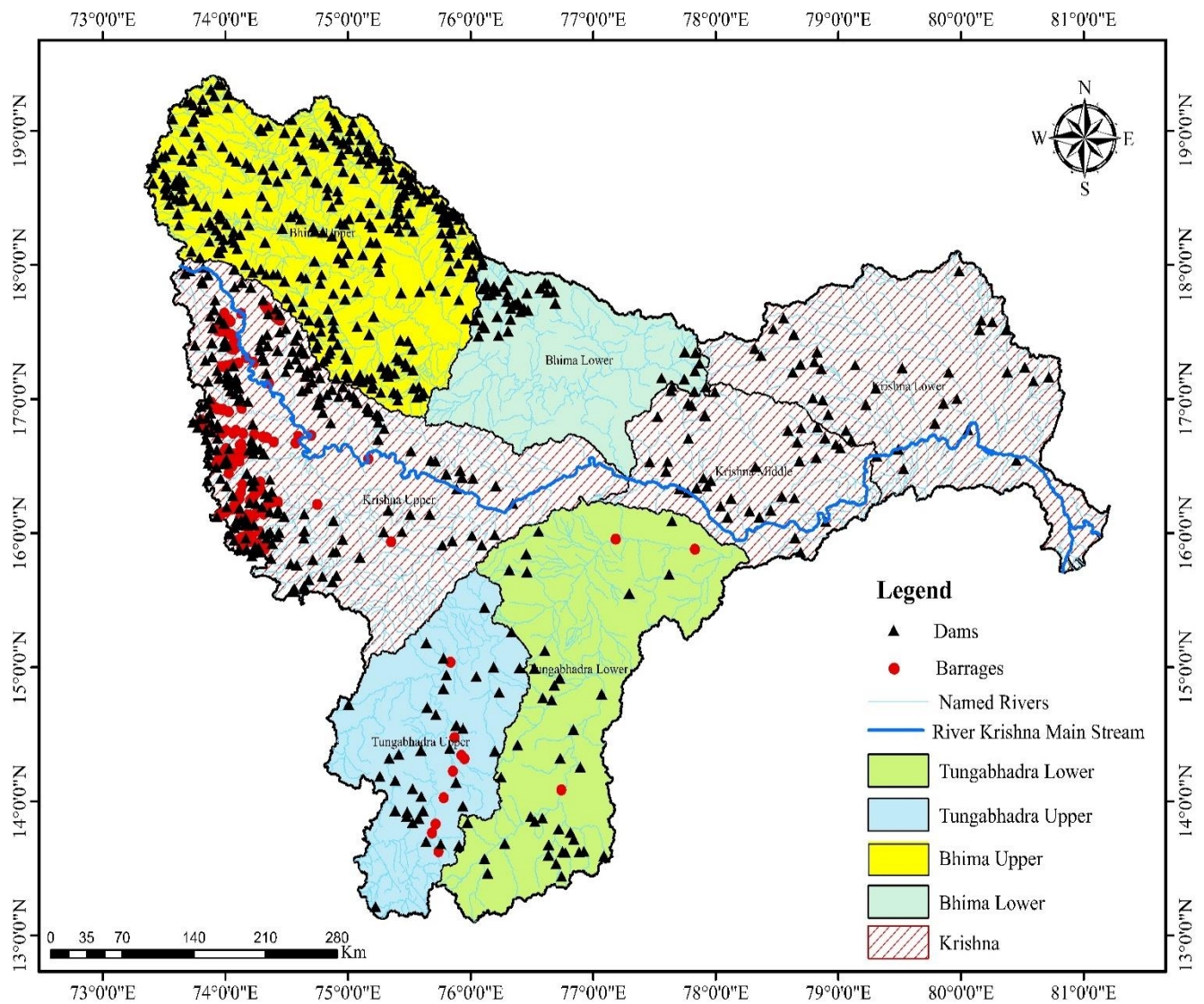
KRISHNA BASIN: CWC RIVER HYDROLOGICAL MEASUREMENT STATIONS



Source: CWC

Figure 5: Krishna Basin CWC River Hydrological Measurement Stations

KRISHNA BASIN: DAMS AND BARRAGES



Source: NRLD and WRIS

Figure 6: Krishna Basin Dams and Barrages

Table 2: Major Dams in Krishna Basin and its tributaries

S No .	State	Name	Project	Project_Type	Country	District	RIVER	Latitude	Longitude
1	Maharashtra	Koyna	Existing	Hydropower / Multipurpose	India	Satara	Koyna	17.405°N	73.750°E
2	Maharashtra	Ujjani	Existing	Irrigation / Multipurpose	India	Solapur	Bhima	17.870°N	75.050°E
3	Karnataka	Almatti	Existing	Irrigation / Power	India	Bagalkot	Krishna	16.350°N	75.850°E
4	Karnataka	Narayanpur	Existing	Irrigation	India	Yadgir	Krishna	16.200°N	76.450°E
5	Karnataka	Tungabhadra	Existing	Irrigation / Power	India	Vijayanagara	Tungabhadra	15.300°N	76.330°E
6	Telangana	Jurala	Existing	Irrigation / Power	India	Jogulamba-Gadwal	Krishna	16.270°N	77.490°E
7	Andhra Pradesh	Nagarjuna Sagar	Existing	Irrigation / Power	India	Nalgonda / Guntur	Krishna	16.540°N	79.320°E
8	Andhra Pradesh	Srisailem	Existing	Irrigation / Power	India	Nandyal	Krishna	16.070°N	78.870°E
9	Andhra Pradesh	Prakasam Barrage	Existing	Irrigation / Barrage	India	Vijayawada (Krishna Dist.)	Krishna	16.520°N	80.620°E
10	Karnataka	Chandramalli Dam	Existing	Irrigation / Multipurpose	India	Kalaburagi (Gulbarga)	Bhima	17.007°N	77.224°E
11	Telangana	Osman Sagar	Existing	Drinking Water Supply / Irrigation	India	Hyderabad / Ranga Reddy	Musi	17.361°N	78.300°E
12	Telangana	Himayat Sagar Dam	Existing	Drinking Water Supply / Irrigation	India	Hyderabad / Ranga Reddy	Esi	17.333°N	78.400°E
13	Karnataka	Navilutheertha Dam	Existing	Irrigation / Multipurpose	India	Belagavi	Malaprabha	15.766°N	75.116°E
14	Karnataka	Hidkal Dam	Existing	Irrigation / Multipurpose	India	Belagavi	Ghataprabha	16.116°N	74.616°E
15	Telangana	Munneru Project	Existing	Irrigation (Medium Project)	India	Khammam	Munneeru	17.247°N	80.144°E
16	Maharashtra	Radhanagari Dam	Existing	Irrigation / Hydropower / Multipurpose	India	Kolhapur	Bhogawati	16.405°N	73.900°E

Table 3: Krishna River Basin District-wise Rivers

S No	District	Named Rivers	Unnamed Rivers	River Name
1	Bagalkot	42		Beeni Halla, Bhavi Halla, Chiral Halla, Dodda Halla , Gadanagudi Halla, Ghaded Halla, Godeda Halla, Hale Halla, Haul Halla, *Hire Halla (9), Hirehalla River, Ilkal N, Kadgi Halla, Kadival Halla, Kakke Halla, Kappalappan Halla, Karna Halla, Kud Don Halla , Lokapur Halla, Maddikere Halla, Malprabha River, Midchi Halla, Palati Halla, Parvatikatti Halla, Rangasamudra Halla, Sasve Halla, Sawaswati Halla, Shaval Halla, Tumbu Halla, Uddara Halla, Vadakina Halla, Vadawad Halla, Krishna River, Ghatprabha River.
2	Belgaum	88		Agrani River, Agsiri Halla, Akkisagara Halla, Argan Nadi, Arlikata Halla, Badachi Halla, Bagarnal Halla, Bakrena Halla, Bale Halla, Bangari Halla, Banki Halla, Bara Halla, Barandar Halla, Bellary N, Betgeri Halla, Chella Halla, Chik Halla, Chikkodi Halla, *Dodda Halla (4), Gadanyal Halla, Gadhar N, Godchi Halla, Gosbal Halla, Gulabshah Halla, Gunnur Halla, Halatar N, Haran Halla, Hari Nadi, Hattaragi Halla, Haul Halla, *Hire Halla (6), Hirehalla River, Hulkund Halla, Huvina Halla, Jabapur Halla, Jallmatti Halla, Kagi Halla, Kalakatii Halla, *Kalla Halla (2), Kanvi Halla, Kappur Halla, Karevan Halla, Karka Nadi, Kotbagi Halla, Kud Don Halla, Kullur Halla, *Kyadagi Halla (2), Lokapur Halla, Mallapur Halla, Mallikarjuna Halla, Malprabha River, Mangetri NRR, Markandeya River, Matyana Halla, Midchi Halla, Ramalinga Halla, Sagri Nala, Saindi Halla, Saulal Halla, Saval Halla, Tangan Halla, Tarana Halla, Timbarguddi Halla, Tupari Halla, Vadawad Halla, Virabhadra Halla, Virupaksha Halla, Hiranyakeshi River, Kari Halla, Krishna River, Vedganga River, Bidar Halla, Chikutra N, Done River, Dudhganga River, Ghatprabha River, Kembali Halla, Tamrapani River.
3	Bellary	47		Agrani River, Banja Halla, Banuchandra Vanka, Bombara Halla, Boyala Vanka, Chandrapura Halla, Chatram Halla, Chikka Hagari R, Chinna Hagari River or Janaga, Devamma Halla, *Dodda Halla (3), Elumori Halla, Erangaligi Halla, Gangamma Halla, Garchi Vanka, *Hagari River or Vedavati River (2), Hakkandi Halla, *Hire Halla (5), Isara Halla, Jali Halla, KaniGana Halla, Karala Halla, Kencha Halla, Komativani Vanka, Konkan Halla, Manchinilla Vanka, Maruru Halla, Muttigi Halla, Nari Halla, Orumundra Halla, *Pedda Vanka (2), Ramappa Vanka, Rotti Halla, Tanna Halla, Uppara Halla, Vadagatte Halla, Naragahunshi Halla, Tungabhadra River, Vedavati River.

4	Bidar	5		Gandori Nadi, Kari Halla, Mullamari Nadi, Nawandgi Halla, Benithora River.
5	Bijapur	104		Akeri Halla, Badagan Halla, Banni Halla, Beeni Halla, Belli Halla, Bhavi Halla, Bhima River, Bor River, Chiral Halla, Desayi Halla, Devara Halla, Dhulkarwadi Nala, *Dodda Halla (7), Gadanagudi Halla, Gadyalk Halla, Ghaded Halla, Godeda Halla, Goti Halla, Hale Halla, Haul Halla, Hebal Nala, Hebbal Halla, *Hire Halla (13), Hirehalla River, Hiri Halla, Hosur Halla, Ilkal N, Indi Halla, Jali Halla, Jini Halla, Kadgi Halla, Kadival Halla, Kajimada Halla, Kakke Halla, Kal Halla, Kali Halla, Kalla Halla, Kalyala Halla, Kamta Halla, Kanal Halla, Kannur Halla, Kanti Halla, Kappalappan Halla, Karna Halla, Kenchai Halla, *Kud Don Halla (2), Kumbarhari Halla, Landan Halla, Lokapur Halla, Mada Halla, Maddikere Halla, Madho Halla, Mallapur Halla, Malli Halla, Malprabha River, Midchi Halla, Nari Halla, Navali Halla, Palati Halla, Parvatikatti Halla, Rangasamudra Halla, Sanna Don River, Sasve Halla, Sattanal Nadi, Saula Halla, Saval Odha, Sawaswati Halla, Shaval Halla, Sindi Halla, Sogali Halla, Sowla Halla, Tolana Halla, Tumbu Halla, Uddara Halla, Vadakina Halla, Vadawad Halla, Yalgaldinni Halla, Yatnal Halla, Kempa Halla, Krishna River, Done River, Ghatprabha River, Kunt Don River, Raadagi Halla, Simi Halla.
6	Chikmaglur	40		*Ameidda Halla (2), Bandi Hole, Bhadra River, Bhramani Nadi, Dodda Halla, Gange Halla, Gauri Halla, Gummanagundi Halla, Gurikodal Halla, Handi Halla, Havalada Halla, Hemakki Halla, Hulagi Halla, Kabbana Halla, Kabbina Halla, Kachavalli Hole, Kalhatti Hole, Katte Hole , Korakan Hole, Kudregundi Halla, Kuve Halla, Lanka Hole, Malathi Hole, Nalini Hole, Nekki Hole, Nirukanda Hole, Orumundra Halla, *Sita Nadi (2), Somavathi Hole, Taduve Halla, Vare Halla, Veda River, *Somavahini Halla (2), Tungabhadra River, Vedavati River, Karikan Halla, Turada Hole.
7	Chitradurga	31		Budala Halla, Chikka Hagari R, Chinna Hagari River or Janaga, *Dodda Halla (3), Gangamma Halla, *Garani Halla (2), Gundi Halla, *Hire Halla (2), Jagana Halla, Kani Halla, KaniGana Halla, *Karala Halla (2), Karla Halla, Katte Hole, Maddera Halla, Maruru Halla, Pedda Vanka, *Sulekere Halla (2), or Haridra Na, Suvarnamukhi River, Uppara Halla, Kodi Halla, Tungabhadra River, Vedavati River, Suvarnamukhi River , Soppina Halla .

8	Davangere	18		Budala Halla, Chikka Hagari R, Chinna Hagari River or Janaga, Gange Gauri Halla, *Hire Halla (3), Hiri Halla, *Karala Halla (2), Karla Halla, Maruru Halla, Muttigi Halla, *Sulekere Halla (2), or Haridra Na, Tungabhadra River, *Soppina Halla (2).
9	Dakshina Kannada	3		*Somavathi Hole (2), Karikan Halla.
10	Dharwad	69		Agsiri Halla, Ali Halla, Ayyanakeri Halla, Bavi Halla, Beeni Halla, Binnala Halla, Budala Halla, Chail Halla, Chandrapura Halla, Chaul Halla, *Chikka Halla (2), Desai Halla, Devate Halla, Dharma River, *Dodda Halla (5), Duppada Halla, Ekke Halla, Gadanyal Halla, *Gadde Halla (2), Gugi Halla, Gundigan Halla, Handigan Halla, Haran Halla, Harogoppa Halla, *Hire Halla (7), Holigeri Halla, Hunise Halla, Hushikatti Halla, Ichal Halla, Iruve Halla, Javali Halla, Kalla Halla, Kanoj Halla, Karekundi Halla, Karla Halla, Kododi Halla, Kudi Halla, Kumadvati River, Kusagura Halla, Landan Halla, Nagara Halla, Nagenahalla, Sarala Halla, Sarwand Halla, Sasve Halla, Saval Halla, *Talona Halla (2), Tupari Halla, Turna Halla, Urumundina Halla, Vardha River, Yaminan Halla, Yelvi Halla, Hire N, Tungabhadra River, Varti Halla.
11	Gadag	40		Ali Halla, Ayyanakeri Halla, Bavi Halla, Beeni Halla, Binnala Halla, Budala Halla, Chail Halla, Devate Halla, *Dodda Halla (2), Duppada Halla, Ekke Halla, *Gadde Halla (2), Haul Halla, *Hire Halla (6), Holigeri Halla, Hunise Halla, Ichal Halla, Ilkal N, Iruve Halla, Javali Halla, Kagi Halla, Malprabha River, Nagenahalla, Rangasamudra Halla, Sarala Halla, Sasve Halla, Saval Halla, Turna Halla, Urumundina Halla, Yelvi Halla, Hire N, Tungabhadra River, Varti Halla.

12	Gulbarga	71		Amarja River, Anwar N, *Are Halla (2), Bayad Nala, Bhima River, Chikka Halla, Chinamageri Nadi, Chinna Vagu, Dargah Halla, Devapur Nala, Dhor N, Dindi Vagu, *Dodda Halla (4), Dogi Halla, Dogl Nala, Gadekarana Halla, Gandori Nadi, Gangana Halla, Garaganji Halla, Halli Halla, Hindupur Vagu, *Hire Halla (2), Hiri Halla, Hutti Nadi, Indi Halla, Javargi Halla, Kamalavati N, Kamta Halla, Kanga River, Kari Halla, Katral Nala, Katta Halla, Kattalli Halla, Kempa Halla, Khaji Halla, Kiri Nala, Kona Halla, Krishna River, Mala Vagu, Mandewal Halla, Maramuri N, Minch Halla, Mogalivadaka Vagu, Monia Nala, Moti Nala, Mullamari Nadi, Nagur Halla, Nandana Halla, Navali Halla, Nawandgi Halla, Nedalgi Halla, Pedda Vagu, Ravur Halla, Sar N, Sattanal Nadi, *Sindi Halla (2), Yadgir Nala, Yalgaldinni Halla, Kempa Halla 2, Krishna River, Benithora River, Bori River, Done River, Gottamgutta Halla, Hippargi Halla.
13	Haveri	17		Beeni Halla, Chandrapura Halla, Dharma River, *Dodda Halla(2), Harogoppa Halla, *Hire Halla (2), Karala Halla 2, Karekundi Halla, Karla Halla, Kumadvati River, Kusagura Halla, Nagara Halla, Sarwand Halla, Vardha River, Tungabhadra River.
14	Koppal	36		Agrani River, Bavi Halla, Biddanumoppa Halla, Binnala Halla, Chenna Halla, Gorebal N, Gugri Halla, *Hire Halla (4), *Hire N (4), chchala Halla, Ichhala Halla, Ilkal N, Kab Halla, Kadgi Halla, Kanak N, Kappalappa Halla, Katka Halla, Konkan Halla, Kumbara Halla, Madi Halla, Marali Halla, Rangasamudra Halla, Rayana Halla, Sasve Halla, Shankarana Halla, Shaval Halla, Urumundina Halla, Vode Halla, Maski N, Tungabhadra River.
15	Raichur	73		Agrani River , Amarawati Halla, Anaikat Halla, Ayyanakeri Halla, Baswani Halla, Bavi Halla, Biddanumoppa Halla, Binnala Halla, Chenna Halla, Chikka Hagari R, *Dodda Halla (2), Dyaman Halla, Garchi Vanka, Godu Vagu, Gorebal N, Gugri Halla, Hagari River, Hakkandi Halla, Hala Halla, *Hire Halla (6) *Hire N (3), Hirekere Halla, Hunise Halla, Hutti Nadi, *Ichchala Halla (2), Ilkal N, Isara Halla, Jagatkal Halla, Kab Halla, Kadgi Halla, Kakkaman Halla, Kakkara Halla, Kanak N, Kappalappa Halla, Katariki Vanka, Katka Halla, Kochhera Halla, Konad Halla, Konkan Halla, Kumbara Halla, Kyadigi Vanka, *Madi Halla (2), Magi Halla, Malla Halla, Marali Halla, Nadala Halla, Nandihal Halla, Nari Halla, Ramappa Vanka, Rangasamudra Halla, Rayana Halla, Shankarana Halla, Shaval Halla, Sindhur N, Suguru Vanka or Pedda Vanka, Urumundina Halla, Vadagatte Halla, Vode Halla, Yalgaldinni Halla, Erra Vagu, Hire N, Maski N, Tungabhadra River.

16	Hassan	3		Dodda Halla, Hire Halla, Veda River.
17	Shimogga	31		Budala Halla, Chikka Hagari R, Chinna Hagari River or Janaga, * Dodda Halla (3), Gangamma Halla, *Garani Halla (2), Gundi Halla, * Hire Halla (2), Jagana Halla, Kani Halla, Kanigana Halla, *Karala Halla (2), Karla Halla, Katte Hole, Maddera Halla, Maruru Halla, Pedda Vanka, *Sulekere Halla (2) or Haridra Na, Suvarnamukhi River (2), Uppara Halla, Kodi Halla, Tungabhadra River, Vedavati River, Soppina Halla 2.
18	Tumkur	8		Chikka Tore, Dodda Halla, Harasoge Halla, Hire Halla, Kare Tore, *Suvarnamukhi River (2), Tore Halla.
19	Uttarkannada	6		Arendur Nadi, Dharma River, Kabbina Hole, Kansi Nadi, Vardha River, Nallur Hole.
20	Yadgir	16		Anwar N, Bhima River, Chikka Halla, Chinna Vagu, Devapur Nala, Dodda Halla (2), Hire Halla, Hiri Halla, Kamta Halla, Kempa Halla, Mala Vagu, Pedda Vagu, Yadgir Nala, Krishna River, Done River.
21	Ahamadanagar	82		Bhima River, Kukdi Nadi, Ghod River, Alkuti Nala, Ambika N, *Ambil Odha (2), Bagha Odha, Bahiroba Nala, Bangri N Bend Nala, Bhagirathi Nadi, Bhandar Odha, Bhingar Nala,Bhor Nadi,Bilaora Nala Bondi Nala, Bopala Bet, Dev Nala, Dhakla Nala, Dudh Nadi,Dudhna Nadi ,Gadamoda Nala,Gadge Odha Gondardi Nadi,Gopalganga Nala, Hanga Nadi, Jambhal Nala,Junyacha Odha,Kanher oda Kanola Nadi,Keli Nadi, Khar Odha, Kharpi Nala,Khatik Nala,Kheri Nadi,Khokar Nala,Khokra Nadi,Khosara Nala,Kokan Oda, Kokri Odha, Krishnavati N,Kumbhargaon Nala,Lokhara Nala,Mandka Nala, *Mandvi N (2), Manikarnika Nala,Meheri Nadi,Mendka R Moti Nala, Murdi Odha,Nagihiri N,Nali Nadi,Nandhi Nadi,Nandi nala,Nirgudi Nala,Padal Nadi Palsa Nadi,Paratduna Nala,Pimpri N,Pondhara Nadi,Rothal Odha,Sangam Nala, *Sarasvati Nala(2), Shel Nadi,Sidhheshwarwadi Nala,Sima Nadi, *Sina R (2), Sosdala Nadi,Taktamandka N,Talwar Nadi,Thagnai Nala Tonde Odha,Uambar N,Vasumbha Nala,Vincharna Nadi Walumba N,Ben Nala,Khar Nadi.
22	Bid	16		Bandwal Nadi, Bhor Nadi, Bokdi Nadi, Gondardi Nadi, Kamli Nadi, *Kari Nadi (2), Keli Nadi, Keri N, Kokan Oda, Meheri Nadi, Nagihiri N, Rahuti Nadi, Sina R 1, Talwar Nadi, Vincharna Nadi.
23	Kholapur	13		Krishna River, Varna Nadi, Panchaganga River, Kasari Nai, Bhogavati River, Dhmnai Nadi, Hiranyakeshi River, Vedganga River, Dhotlikanda Nadi, Chikutra N, Dudhganga River, Ghatprabha River, Tamrapani River.
24	Raigarh	5		Bhima River, Ghod River, Mula River, Ambi R, Nira River

25	Pune	114		Bhima River, Bubra Nadi, Dudhewar, Krishnawati, Kukdi Nadi, Mina R, Ghod River, Alhat Nala, Alkuti Nala, Ambe Odha, Amble Odha, Andhra Nadi, Ardara Nala, Arla Nadi, Athmori Odha, Baravcha Odha, Bend Odha, Bhai Roba Odha, Bhama River, Bhulobcha, Bor Odha, Chambli R, Chandkhed Nadi, Devalmalik Nala, Dhareka Odha, Dhonde Hiracha Odha, Dudh Nadi, Hanga Nadi, Janal Odha, Junyacha Odha, Kala Odha 3, Kamina N, Kamini R, *Kaner Odha (2), kar N, Karha R, Kasarsai Odha, Khanar Odha, Kontvan Nalla, Krishnavati N, Kumandala N, Kundali N, Kurkumbhcha Odha, Limb Odha, Mahar Ka Odha, Mandvi N, Moti Nala, Mula River, Mutha N, Mutha River, Naigon Odha, Nandi nala, Nar Nala, Nar Odha, Pahika Odha, Pauna River, Perada Odha, Pushpavati N, Ram Nadi, Ramjibuvacha Odha, Roti Nala, Shirsai Odha, Shivaganga R, Sidhleshwarwadi Nala, Sinde Odha, Son Odha, Tambul Odha, Teljai Nala, *Thorla Odha(2), Vandevacha Odha, Vel R, Yevle Odha, Indravani River, Adurki Odha, Akkal Nala, Ambi R, Amir Amla Nala, Asmai Odha, Bangang Nadi, Bansur Odha, Bendi Odha, Chandan Odha, Chirkicha Odha, Dumnya Baba Odh, Gunjawani River, Guptling Odha, Janaicha Odha, *Kala Odha (2), Kanand N, Karani Odha, Karanje Nadi, Khapar Odha, Khatkali Odha, Kundali Nadi, Kurje Nala, *Lendi Odha (2), Mangobacha Odha, Markcha Odha, Mukai Odha, Nira River, Panda Odha, Rudragnaga, Sarhad Nala, Satvai Odha, Tel Bend Odha, Thirla Odha, Valki Nadi, Vithoba Odha, Welvandi N, Gunjavane N
26	Raigarh	5		Bhima River, Ghod River, Mula River, Ambi R, Nira River
27	Sangli	51		Krishna River, Man River, Ankalayi Odha, Aprupa Nadi, Argan Nadi, Arpura Nadi, Aundhi Nala, Balaora Nadi, Belvan Nadi, Benja Odha, Bor River, Chor Odha, Dabucha Odha, Dhandar Odha, *Dodda Halla (2), Gauri Odha, Gharkada Nadi, Gondira Odha, Jali Odha, Kali Halla, Kesar Halla, Khavni Odha, Korda Nadi, Kothiwada Nala, Kumbharhari Halla, Kurui Odha, Maskar Nala, Ravalda Halla, *Saval Odha (3), Sonde Halla, Torla Odha, Varnala Halla, Warar Devi Nala, Ramghat Nadi, Veria River, Varna Nadi, Bale Halla, Darai Odha, Dhulkarwadi Nala, Don Halla, Gulganji Halla, Hire Halla, Kannur Halla, Kasarkki Halla, Lakshmi Odha, Sindi Halla, Yatnal Halla, Done River
28	Satara	31		Adurki Odha, Bangang Nadi, Guptling Odha, Karani Odha, Karanje Nadi, Mangobacha Odha, Mukai Odha, Panda Odha, Sarhad Nala, *Krishna River (2), Man River, Beldev Odha, Dambal Odha, Dhok Odha, Gharkada Nadi, Gharkada Odha, Jambhulni Odha 1, Kondar Odha, Lamacha Odha, Maskar Nala, Torla Nala, Waghzal Nadi, Tarna Nala 2, *Nag Dauni N (2), Solsahi N, Veria River, Urmaodi Nadi, Varna Nadi, Vena River.
29	Sindhudurg	3		Panchaganga River, Hiranyakeshi River, Ghatprabha River

30	Solapur	73	Bhima River, Bopala Bet, Kanola Nadi, Kumbhargaoon Nala, *Pandwara Nadi(2), Pradhan Nala, Sina R 1, Ulupa Nadi, Akkal Nala, Guptling Odha, Mahadev Nala, Mukai Odha, Nira River, Arda Nala, Bend Nala, Bhogavati Nadi (2), Dhudbhubi Odha, Ghorvada Nala, Harni R, Jam Odha, Khara Nala, Kok Nala, Man River, Mith Odha, Nagjhari Nadi, Nani Nadi, Nannaj odha, Nilkantha Nala, Palas Odha, Ram Nala, Sarvad Nadi, Shirshi Odha, Sus Nala, Tamalwadi Nala, Vangira Odha, Yadla Nala, Bori River, Arpura Nadi, Aundhi Nala, Balaora Nadi, Beldev Odha, Belvan Nadi, Chincholi Odha, Dodda Halla , Gaddal Odha, Gharkada Nadi, Gondira Odha, Hebal Nala, Jambhulni Odha, Kal Halla, Kasal Nadi, Katral Nala, Kesar Halla, Khadkira nala, Khichdi, Kiri Nala, Korda Nadi, Kothiwada Nala, Madhal Odha, Madho Halla, Man R, Odha Nala, Ravalda Halla., Sigola Nala, Sindi Halla, Torla Odha, Vag Nala, Valand Nala, Warar Devi Nala, Ghumera Odha, Ramghat Nadi
31	Thane	4	Dudhewar, Krishnawati, Kukdi Nadi, Mina R
32	Osmanabad	33	Dudhna Nadi, Nali Nadi, Pandwara Nadi, Sina R, Ulupa Nadi, Dudhna Nadi, Khar Nadi, Arda Nala, *Bhogavati Nadi (2), Burti Nala, Chandni Nadi, Gaonkar Odha, Harni R, Javalaga Nala, Lindor Nala, Mahasoba Odha, Monia Nala, Nagjhari Nadi, Nani Nadi, Nannaj odha, *Palas Odha (2), Salagara Odha, Sarvad Nadi, Shirshi Odha, Solna N, Tamalwadi Nala, Vangira Odha, Benithora River, Bori River, Khandala Nala, Wadi Odha.
33	Anantapur	14	Boyala Vanka, Chinna Hagari River or Janaga, Gangamma Halla, Garani Halla, Katta Vanka, Komativani Vanka, Manchinilla Vanka, Nettallamaru Vanka, Pedda Vanka, *Vedavati River (2), Suvarnamukhi River, Namagadda Vanka, Dodda Halla.
34	Guntur	43	Ayyanna Vagu, Bottala Vagu, Bugga, Bugga Vagu 1, *Chandravanka R (2), Chennavaram Vagu, Chintala Vagu, Dandi Vagu, Eddu Vagu, Edibogula Vagu, Edumangalam, Erga, Erra Vagu , Gadldela Vagu, Ganneru, Goll Vagu, Golumuttapaya, Gundala Vagu, Isuka Vagu, Janne Kaluva, Jarri Vagu, *Kappala Vagu (2), Kondaviti Vagu, Kottapalem Nala, Kottella Vagu, Mada Vagu, Mala Kalva, Mekavati Vagu, Nadimi Eru, Naguleru, Naguleru Vagu, Nalla Nalla, Pedda, *Pedda Vagu (2), Pilleru Vagu, Ralla Vagu, Tati, Vedulapaya, Yalaboti Vagu, Krishna River.
35	Krishna	30	Ayyanna Vagu, Budameru R, Chintala Vagu, Eddu Vagu, Edulla Vagu, Gaddigondi Kaluva, Gollavani Kaluva, Golumuttapaya, Gunderu Nala, Ippala Vagu, Kappala Vagu, Kattaleru, *Konda Vagu (2), Kondaviti Vagu, Kotula Vagu, Krishna River, Kush Eru, Mada Vagu, Muggu Vagu, Muneru, Nadimi Eru, Padamata Vagu, Pala Vagu, Palleru, Pedda Vagu, Puli Vagu, Uppu Kalva, Wyr, Krishna River.

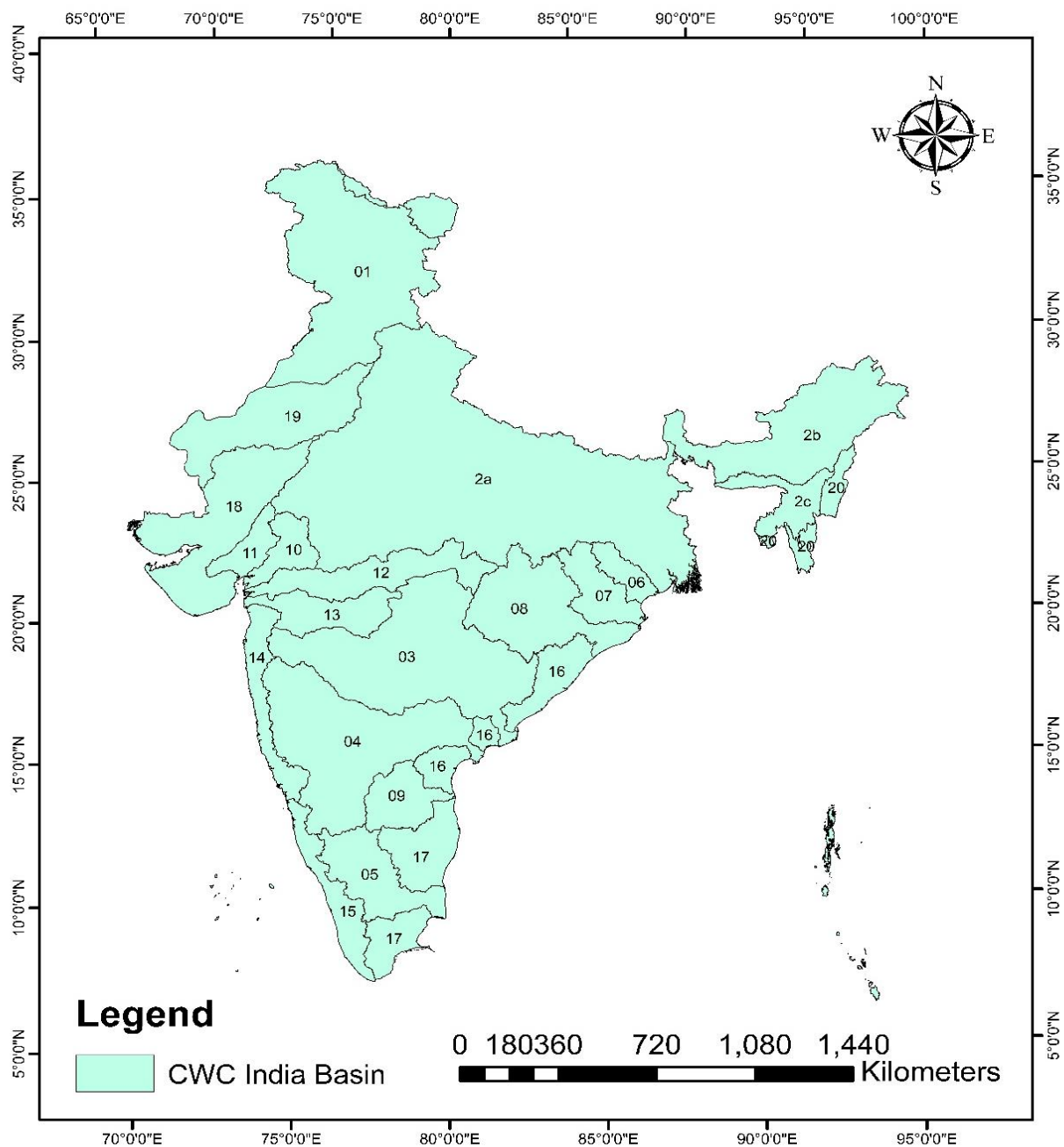
36	Kurnool	31		Bhavanasi River, Channampalli Vanka, Devaragutta Vanka, Garchi Vanka, Godu Vagu, Hagari River or Vedavati River, Handri River, *Hire Halla (2), Irla Vanka, Kanakavidu Vanka, Katariki Vanka, Katta Vanka, Komativani Vanka, Kudluru Vanka, Kyadigi Vanka, Malla Vagu, Munimadugula Eru, Nettallamaru Vanka, Pala Handri River, Pedda Vagu, *Pedda Vanka (3), Samala Vanka, Suguru Vanka or Pedda Vanka, Vakkara Vagu, Erra Vagu, Handri River, Krishna River, Tungabhadra River.
37	Prakasam	7		Chennavaram Vagu, Kuntalapadugu Vagu, Maddulasari Vagu, Munimadugula Eru, Nakkanti Vagu, Nekkanmu Vagu, Palanka Vagu.
38	Hyderabad	2		Chinna Musi R, Musi
39	Khamam	18		Akeru Nadi, Boggu Gutta, Buga Nadi, Edulla Vagu, Gangadevipadu, Ippala Vagu, Kattaleru, *Konda Vagu (2), Muneru, Nimma Vagu, Padamata Vagu, Palleru, Puli Vagu, Ralla Vagu, Talla Vagu, Tettevai Vagu, Wyr.
40	Mahbubnagar	53		Bhavanasi River, Bhimanapalli Vagu, Bhimawaram N, Bugga Vagu_Krishna River, Chandra Vagu, Chinna Chela, *Chinna Vagu (3), Chinnagundala Vagu, Devarkaula Vagu, Dindi River, Dodda Halla , Ghantakaranna Vagu, Gowardhangiri Vagu, Hindupur Vagu, Jarri Vagu, Kakarveni R, Kaklet Vagu, Kampa Vagu, Kanakavidu Vanka, Kaukuntla Vagu, Konnur Vagu, Kuntalapadugu Vagu, Maddelu Vagu, Maddulasari Vagu, Mala Vagu, Mallappaharani Vagu, Manne Vagu, Nalla Vagu, Narrapati Kalava, Nartimula Vagu, Nekkanmu Vagu, Palanka Vagu, Pedda Chela, Pedda Paya, *Pedda Vagu (7), Pedda Vanka , Peddapaya Vagu, Pullibugga Vagu, Purmaklakaya Vagu, Pyata Vagu, Sararam N, Vadlavanchela Vagu, Yerragattu Vagu, Krishna River , Tungabhadra River.
41	Medak	6		Aler River, Kandukura Vagu, Musi, Pochamma Vagu, Sar N, Shamirpet Vagu
42	Nalgonda	58		Akkapolkam Vagu, Aler River, Antara Ganga Vagu, Barimeda Vagu, Bhimanapalli Vagu, Bugga Vagu 2, Bukleru River, Chandra Vagu, Chandravanka R , Chilakala Vagu, Chinna Chela, Chinna Musi R, Chinnaeru R, Cholleru Vagu, Dandi Vagu, Dindi River, Dra Vagu, Edumangalam, Elaga, Gadidela Vagu, Ganneru, Garla, Godra Vagu, Goll Vagu, Gudipalli Vagu, Gundla Vagu, Halia, Jalu Vagu, Kandla Vagu, Kandukura Vagu, Katangur Vagu, Kongal, Mami Dimotta, Mattam Vagu, Musi, Naguleru Vagu, Nakkala Vagu, Nendra, *Palleru (2), Pedda Chela, Pedda Paya, *Pedda Vagu (4), Pilleru Vagu, Ralla Vagu , Shamirpet Vagu, Shasler Vagu, Sirdepalli Vagu, Tati, Tettevai Vagu, Tolla, Tungapahad Vagu, Vemuleru, Chinna Vagu , Krishna River .

43	Rangareddy	28	Akkapolkam Vagu, Ashta Vagu, Bandla Vagu, Bhimawaram N, Chinna Musi R, Chinna Vagu, Chinna Vagu, Chinnaeru R, Dindi River, Dindi Vagu, Ermulli Vagu, Gudipalli Vagu, Halia, Kakarveni R, Kanga River, Kollam Vagu, Madyala Vagu, Musa Nadi, Musi, *Pedda Vagu (3), Pina Katwa Vagu, Pochamma Vagu, Reddi Vagu, Shamirpet Vagu, Yelimineti Vagu, Sakari Vagu.
44	Warangal	25	Akeru Nadi, Aler River, Algu Vagu, Bandala Vagu, Bokkala Vagu, Buga Nadi, Chilpuru Vagu, Isuka Vagu, Kalkanda Vagu, Lotu Vagu, Masi Vagu, Muneru, Nidigonda, Palleru, Pandiperapula Vagu, Pandyala Vagu, Pedda Vagu, Talla Vagu, Tettevai Vagu, Tirumana Vagu, Ummala Vagu, *Vatti Vagu (3), Yesvantapuram Vagu.

***Indicates repeated stream names. The number in parentheses shows the total number of occurrences (e.g., Hirehalla (9) represents the name of the river ‘Hirehalla’ appears 9 times in the dataset)."**

RIVER BASINS IN INDIA: LEVEL 1

A Level 1 basin is the land area drained by a main river and all its tributaries, defined by natural boundaries, typically ridges or elevated areas that direct water flow. In India, the major river basins categorized as Level 1 basins are listed by the Central Water Commission (CWC), as shown in the map below.



Source: CWC

Figure 7: Level 1 River Basins in India

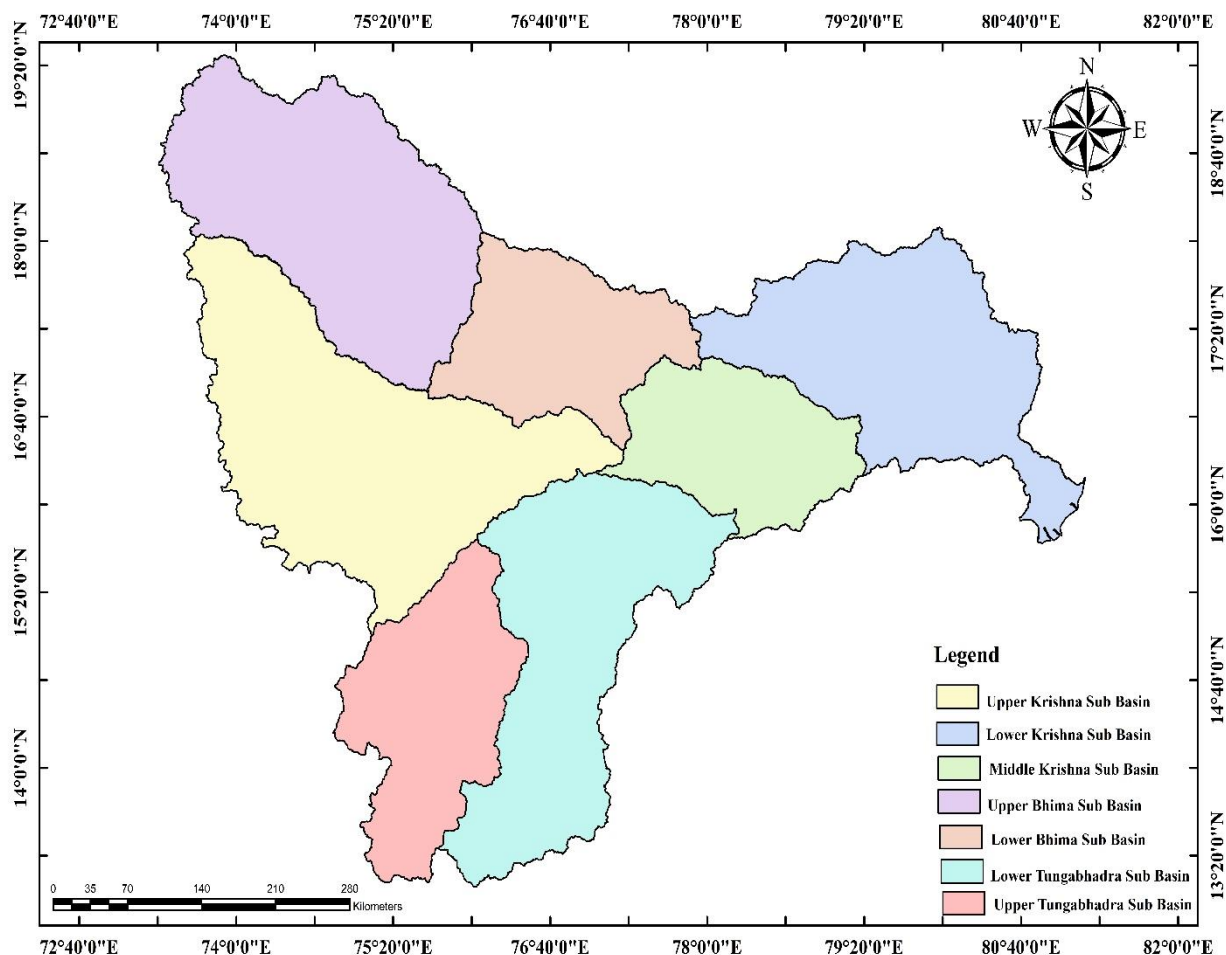
Table 4: List of Level 1 Basins in India (As Listed by CWC)

Basin Code	Basin Name
1	Indus (Up to Indian Border)
2a	Ganga
2b	Brahmaputra
2c	Barak and others
3	Godavari
4	Krishna
5	Cauvery
6	Subernarekha
7	Brahmani and Baitarni
8	Mahanadi
9	Pennar
10	Mahi
11	Sabarmati
12	Narmada
13	Tapi
14	West-flowing rivers from Tapi to Tadri
15	West-flowing rivers from Tadri to Kanyakumari
16	East flowing rivers between Mahanadi and Pennar
17	East-flowing rivers between Pennar and Kanyakumari
18	West flowing rivers of Kutch and Saurashtra including Luni
19	Area of inland drainage in Rajasthan
20	Minor rivers draining into Myanmar (Burma and Bangladesh)

Source: CWC

KRISHNA RIVER BASIN:

The Krishna basin is split into 7 sub-basins namely Bhima lower sub-basin (9.28%), Bhima upper sub-basin (17.58%), Krishna lower sub-basin (15.5%), Krishna middle sub basin (8.73%), Krishna upper sub-basin (21.4%), Tungabhadra lower sub-basin (16.31%), and Tungabhadra upper sub-basin (11.2%) as shown in Figure 8 Below



Source: SRTDEM, 30m

Figure 8: Significant Sub - basins in Krishna River Basin

Table 5: List of Significant Sub Basins in Krishna River Basin

S No.	Basin Name
1	Upper Krishna
2	Upper Bhima
3	Lower Bhima
4	Middle Krishna
5	Lower Krishna
6	Upper Tungabhadra
7	Lower Tungabhadra

RIVER NETWORK PREPARATION METHODOLOGY

The methodology adopted, in brief, to obtain the river network are stepwise as follows:

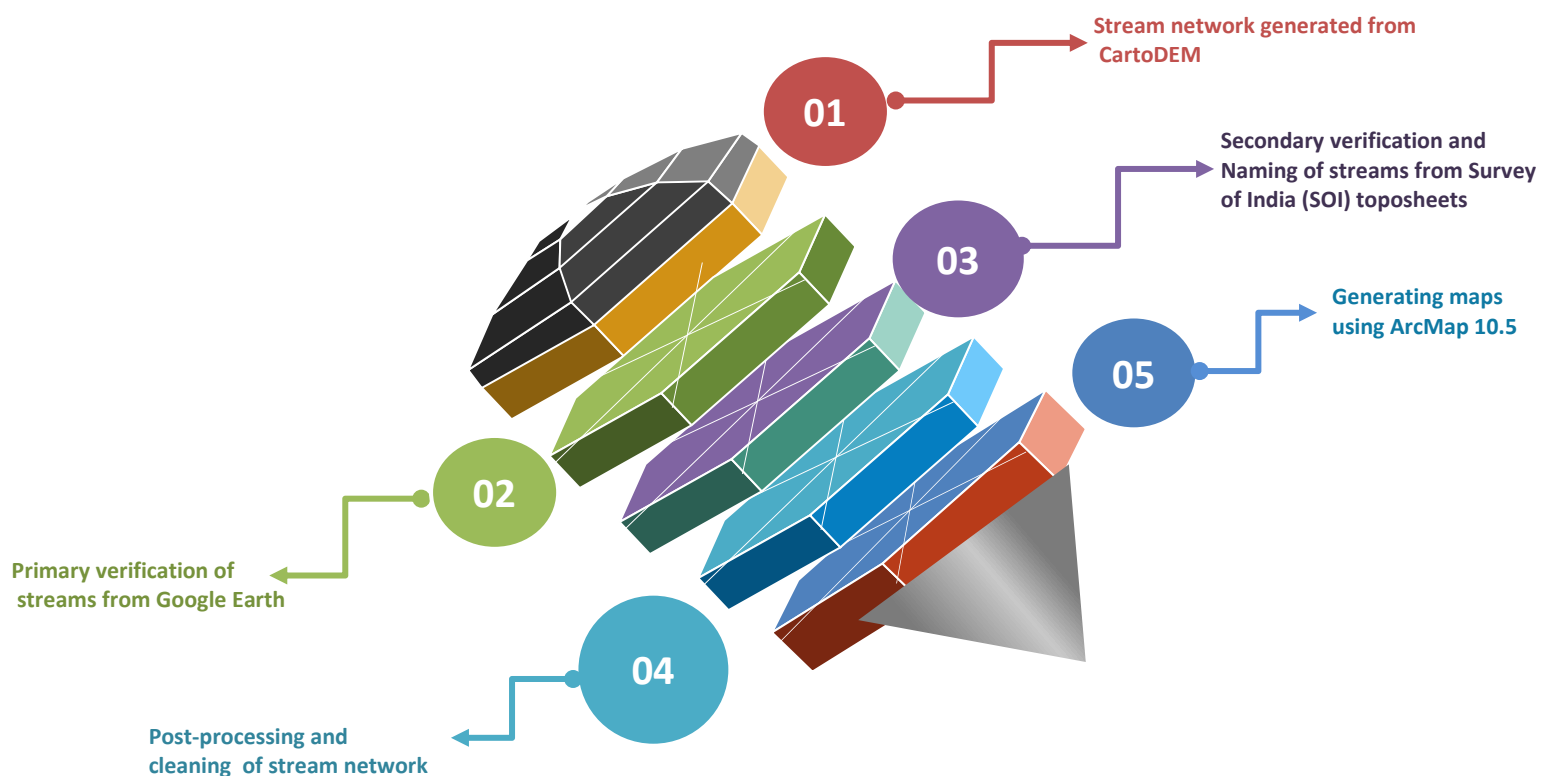


Figure 9: River Network preparation Methodology

- ❖ Streams less than 1.0 km from local agricultural land are not covered.
- ❖ All streams originating from populated areas (urban or rural) are covered, even if they are less than 1 km (if it is visible) on Google Earth images.

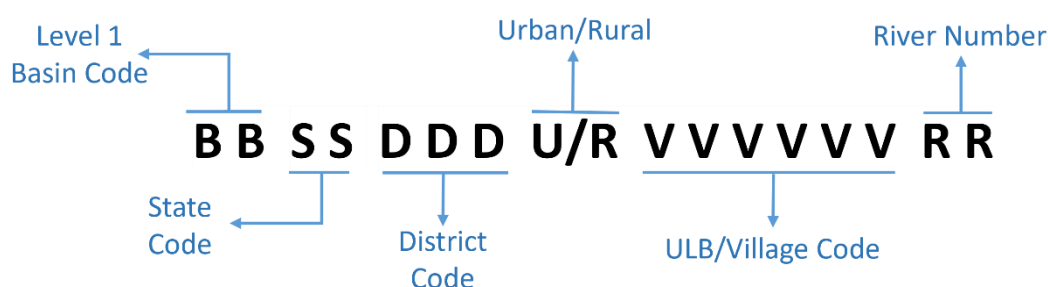
Disclaimer: The accuracy of the maps generated by the above method are subject to the limitations of the data processing tools and software used for the particular geographical regions as represented in Google Earth images, and is subject to future refinement.

RIVER CODIFICATION METHODOLOGY

In the present Atlas, alphanumeric characters are used to code the river systems. A combination of natural and administrative boundaries is used to assign a code to each river and stream. Each sub-step in the codification system is assigned a digit or alphabet that indicates the length of the code up to that point, and the total length of the code is 16 digits. For the rivers originating outside the national boundary of India, the point where the river enters the national boundary is considered as its origin point.

a) River originates in Urban/Rural Area:

The first two digits denote the code for the major basin, based on the system proposed by the Central Water Commission (CWC), Government of India. Following this, the two alphabets indicate the state where the river originates, such as "MH" for the Krishna. The following three digits represent the district where the river originates. The next character, 'U' or 'R,' indicates whether the origin is in an urban or rural area. The subsequent six digits are the Urban Local Body (ULB) code if the river originates in an urban area or the village code if it originates in a rural area. The district and ULB/village code correspond to the origin of the river, and are available from the Local Government Directory, GoI (LGD) website. The final digit indicates the number of the specific river that originates within the specific location falling within an administrative boundary, such as a town/city or a village.



b) River originates in Forest Area:

The first two digits denote the code for the major basin, based on the system proposed by the Central Water Commission (CWC), Government of India. Following this, the two alphabets indicate the state where the river originates, such as "MH" for Krishna. The following three digits indicate the district where the river originates. The next character, 'F', signifies that the river originates in a forest area. The subsequent four digits denote the sub-district code where the forest is located. The following two digits indicate the number of the specified forest in the sub-district. The district, sub-district, and forest codes correspond to the river's origin, with district and sub-district codes available from the Local Government Directory (LGD) website, GoI. The final digit indicates the number of the river that originates within the specific forest cover or range.

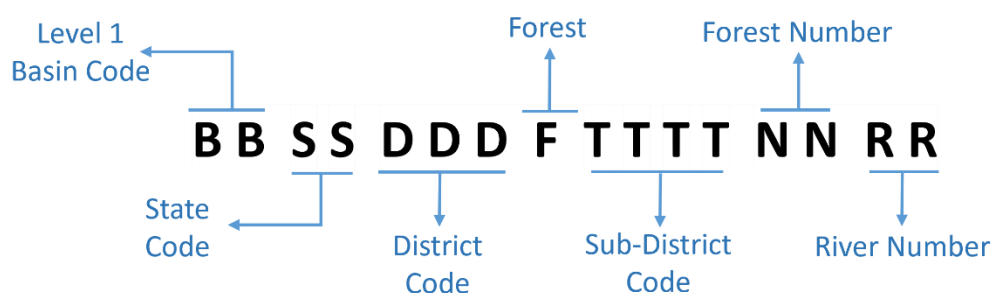


Table 6: Unique Identity Code of Selected Rivers in Krishna River Basin

SI No.	River Name	Length (km)	UID Code	SI No.	River Name	Length (km)	UID Code
1	Krishna River	1376.894	04MH494R56309601	24	Mula River	150.042	04MH490R55606501
2	Bhima River	875.617	04MH490R55567501	25	Chikka Hagari R	139.562	04KA533R60545901
3	Tungabhadra River	746.82	04KA532R60893501	26	Beeni Halla	139.142	04KA540R60387901
4	Sina R 1	337.771	04MH466R55807401	27	Bori River	138.017	04MH488R56153701
5	Malprabha River	328.288	04KA527R59780501	28	Handri River 1	135.831	04AP511R59444401
6	Vedavati River	301.952	04KA532R60952701	29	Dudhganga River	132.843	04MH480R56764501
7	Musi	299.317	04TS698R57467201	30	Hiranyakeshi River	131.539	04MH495R56686901
8	Ghatprabha River	299.29	04MH495R56686801	31	Panchaganga River	130.82	04MH480R56753701
9	Vardha River	252.643	04KA547R60720601	32	Pedda Vagu 14	125.99	04TS698R57460401
10	Nira River	231.853	04MH490R55680901	33	Mullamari Nadi	125.895	04KA529R59978602
11	Muneru	216.293	04TS522R57809201	34	Halia	122.062	04TS518R57486901
12	Bhadra River	203.136	04KA532R60989201	35	Veria River	121.323	04MH494R56350401
13	Done River	196.314	04KA527R59732501	36	Akeru Nadi	120.276	04TS689R57769801
14	Ghod River	190.723	04MH490R55544801	37	Vedganga River	115.536	04MH480R56786401
15	Dindi River	188.311	04TS698R57461601	38	Aler River	115.046	04TS692R57372101
16	Palleru 1	182.913	04TS689R57821601	39	Chinna Hagari River or Janaga	114.941	04KA533R60549801
17	Man River	180.101	04MH494R56336701	40	Karha R	112.138	04MH490R55627902
18	Benithora River	166.39	04MH488R56165801	41	Kukdi Nadi	111.565	04MH490R55528001
19	Kumadvati River	164.955	04KA547R60807801	42	Markandeya River	104.153	04KA527R59773502
20	Varna Nadi	160.869	04MH494R56418101	43	Indravani River	103.353	04MH490R55594001

The table lists the UID code for selected rivers in Krishna River Basin. For a complete list of rivers in Krishna River Basin and their UID codes, refer to this link.

<https://drive.google.com/file/d/1rY33xhOJNbFoOTznBDtwXki5ilrYyVd/view?usp=sharing>

KRISHNA BASIN AND ITS RIVER NETWORK

Upper Krishna River UID Code

River Length (km)	592.458
Basin Area (sq.km.)	55704.9
Number of Named Rivers	202
Length of Named Rivers (km)	6807.003539
Total River Length (km)	

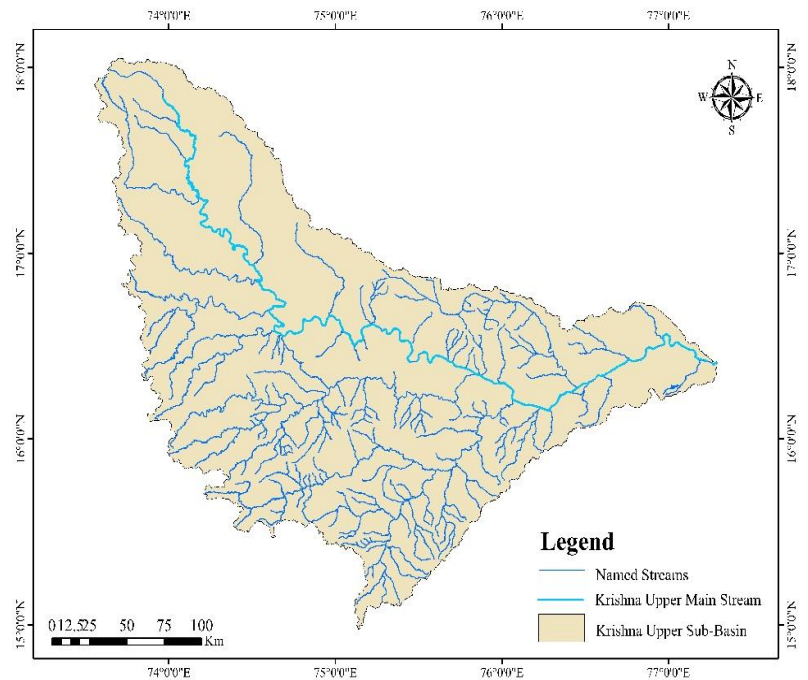
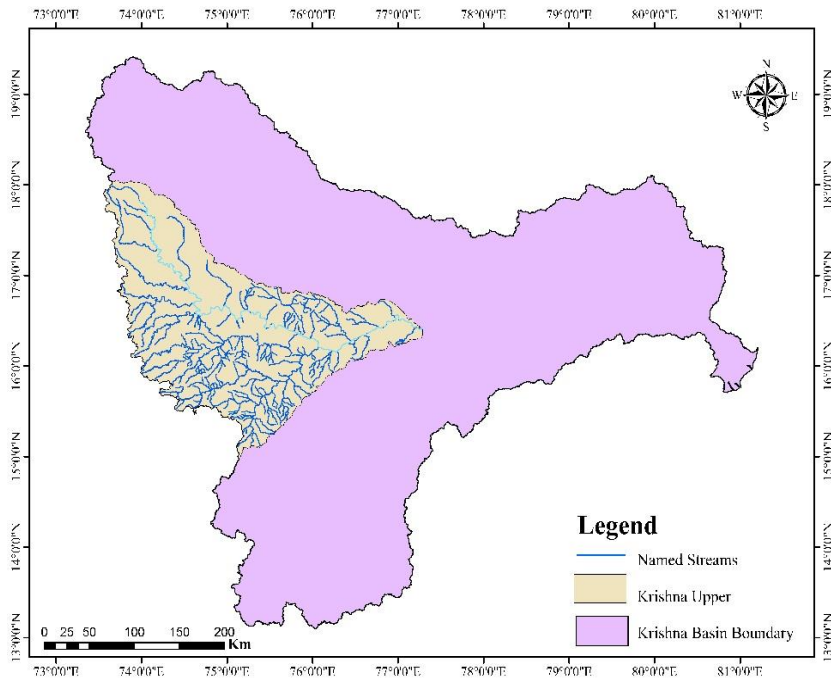


Figure 10: Upper Krishna Basin River Network

Middle Krishna Basin UID Code	
River Length (km)	334.094
Basin Area (sq.km.)	22783.9
Number of Named Rivers	57
Length of Named Rivers (km)	2130.481242

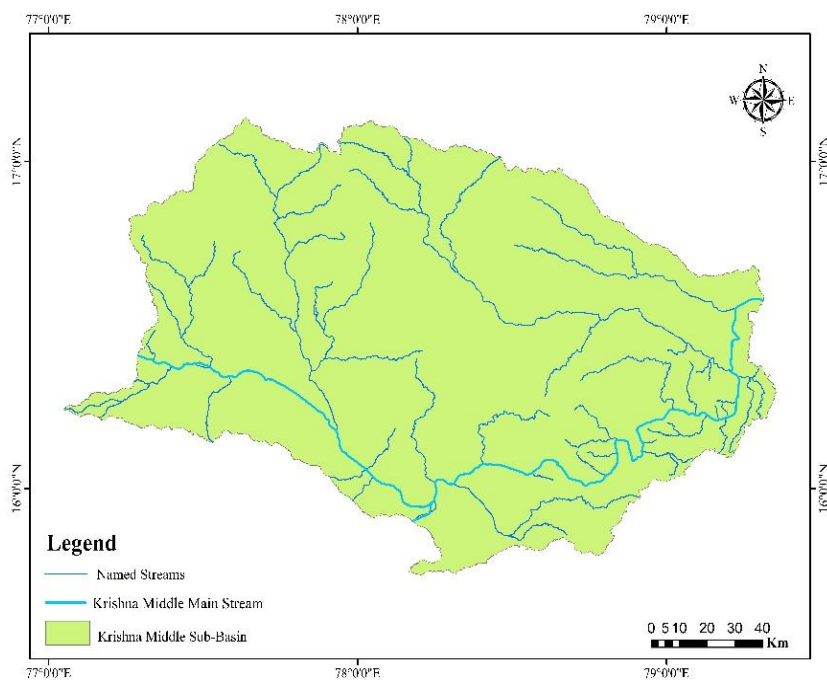
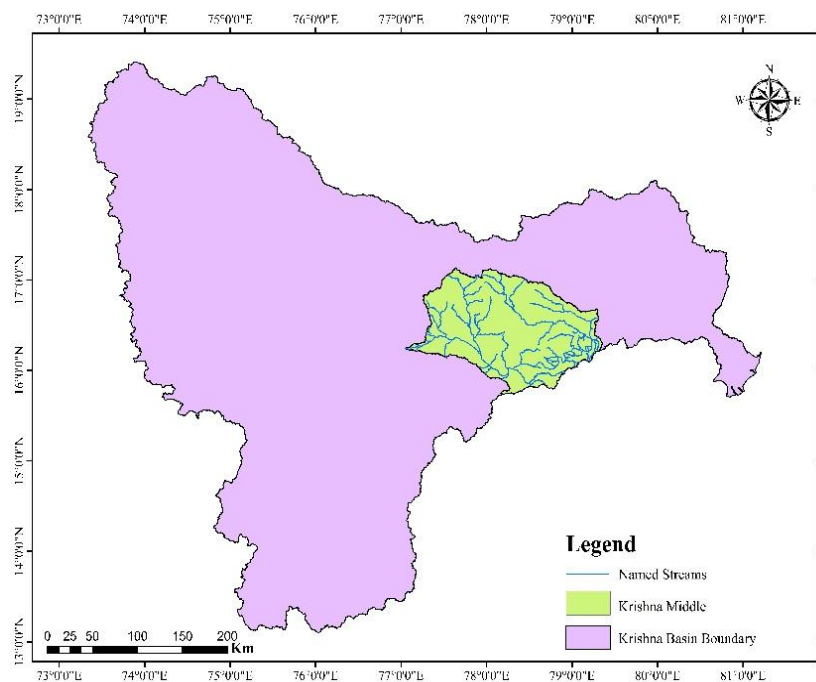


Figure 11: Middle Krishna Basin River Network

Lower Krishna Basin UID Code	
River Length (km)	361.33
Basin Area (sq.km.)	40714.7
Number of Named Rivers	132
Length of Named Rivers (km)	4990.239924

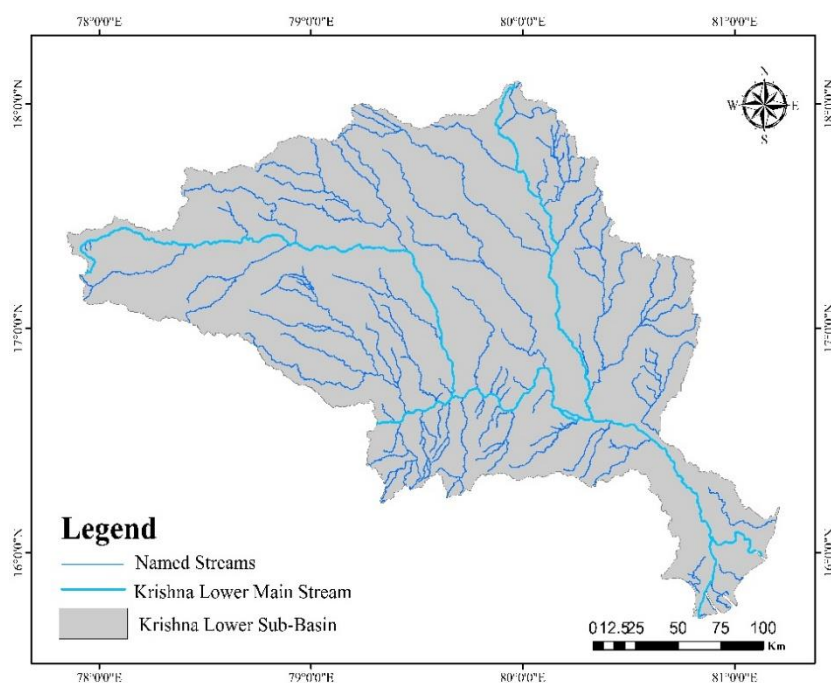
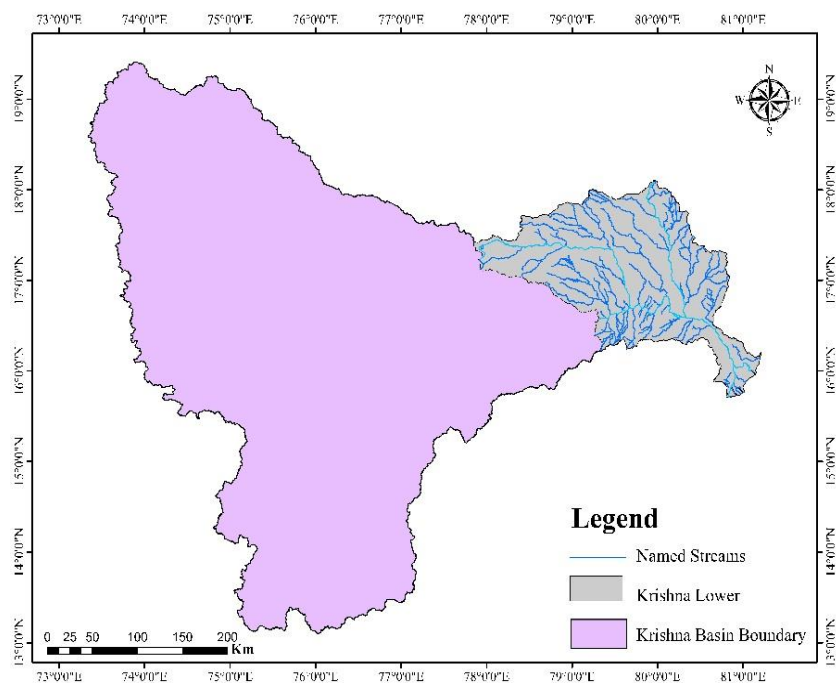
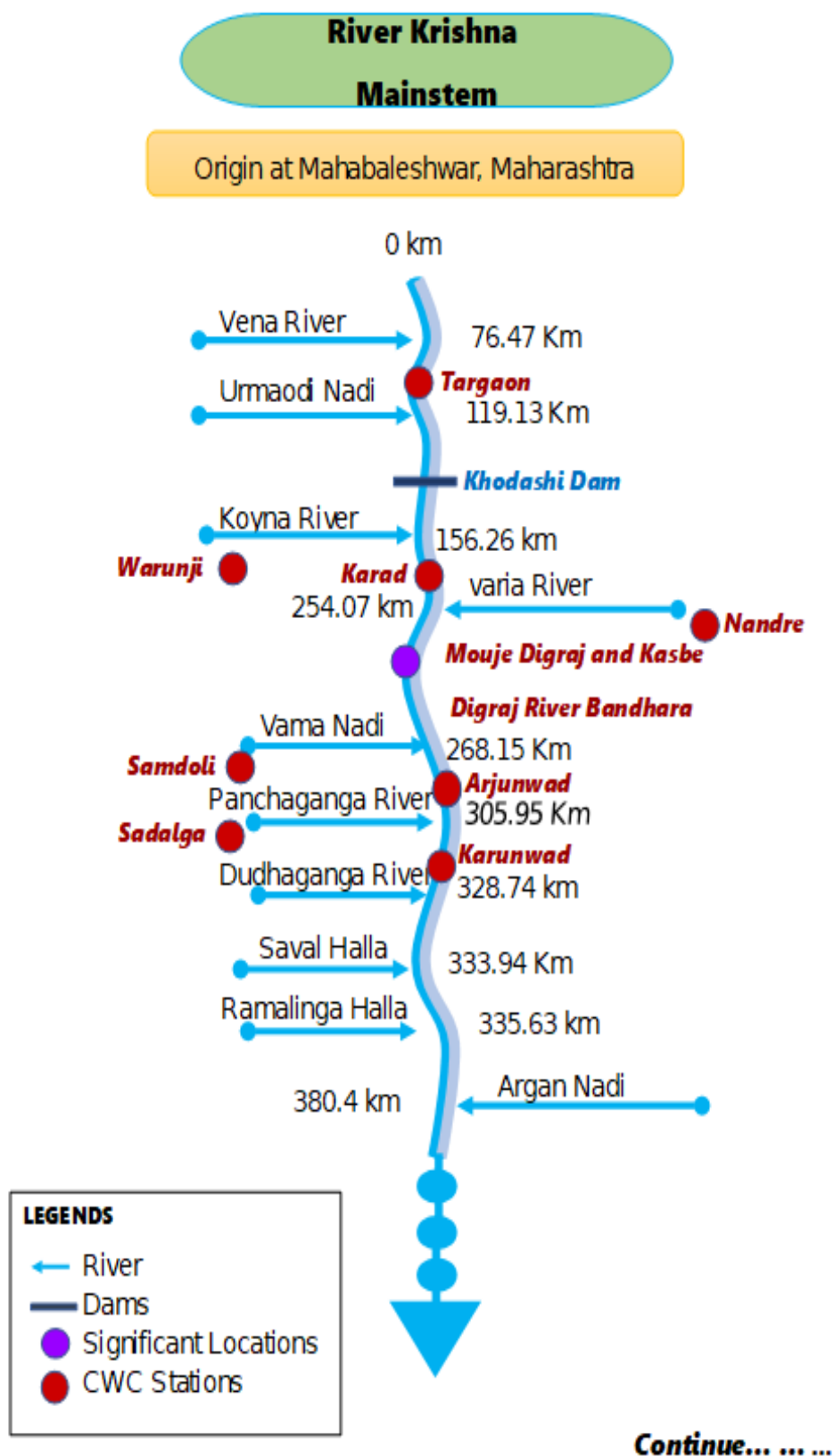
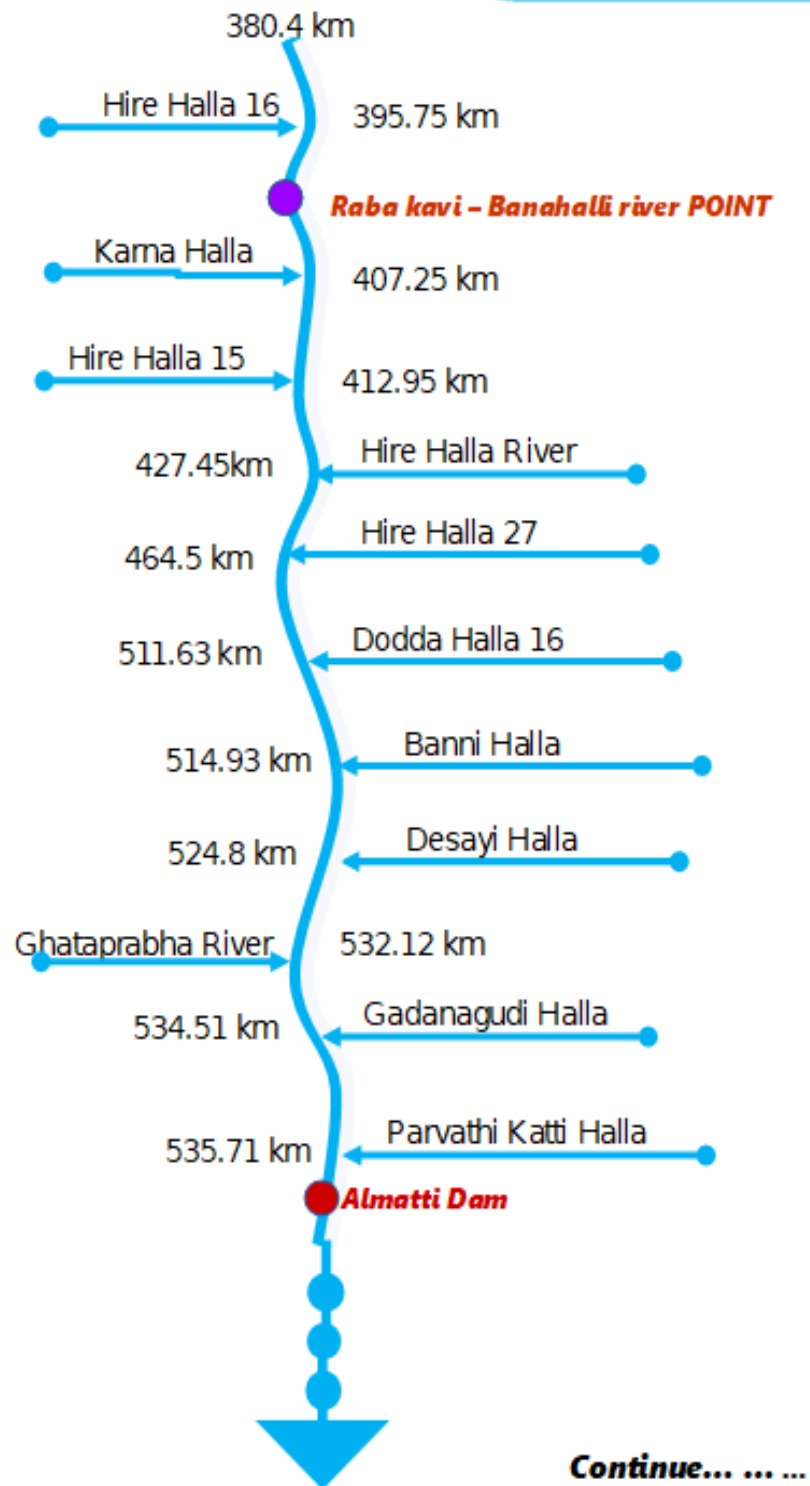


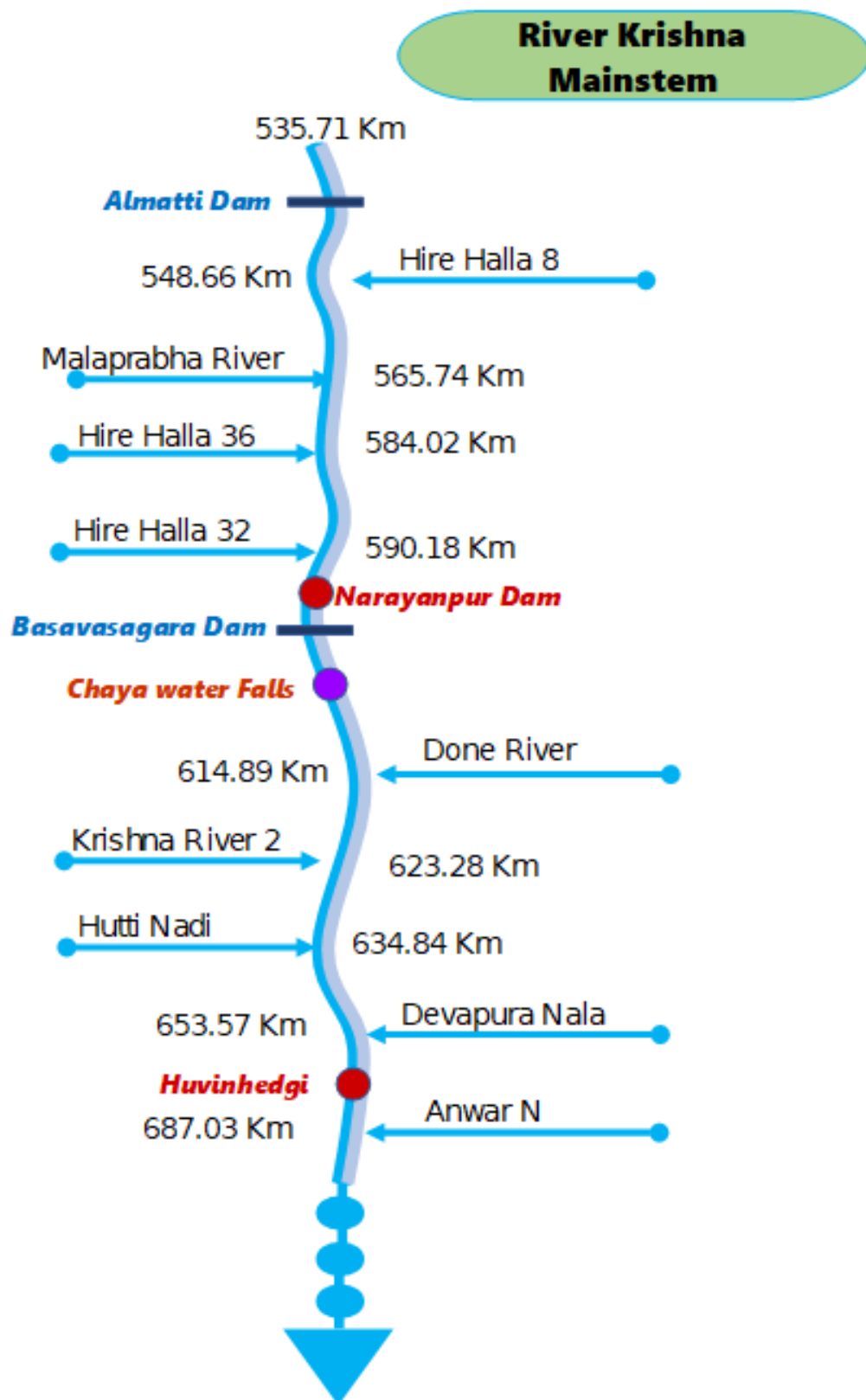
Figure 12: Lower Krishna Basin River Network

KRISHNA RIVER MAIN STEM FLOW DIAGRAM

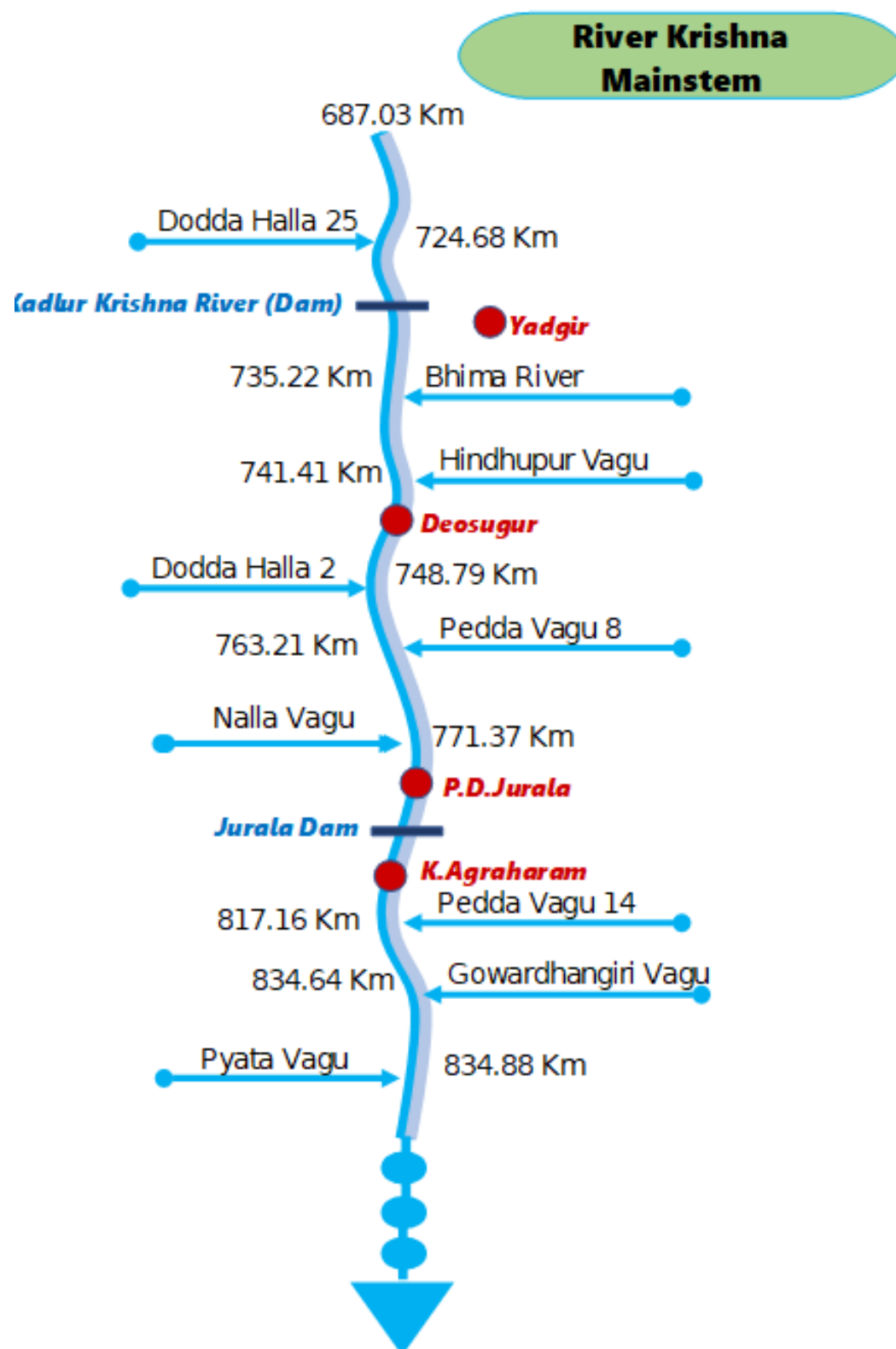


River Krishna Mainstem





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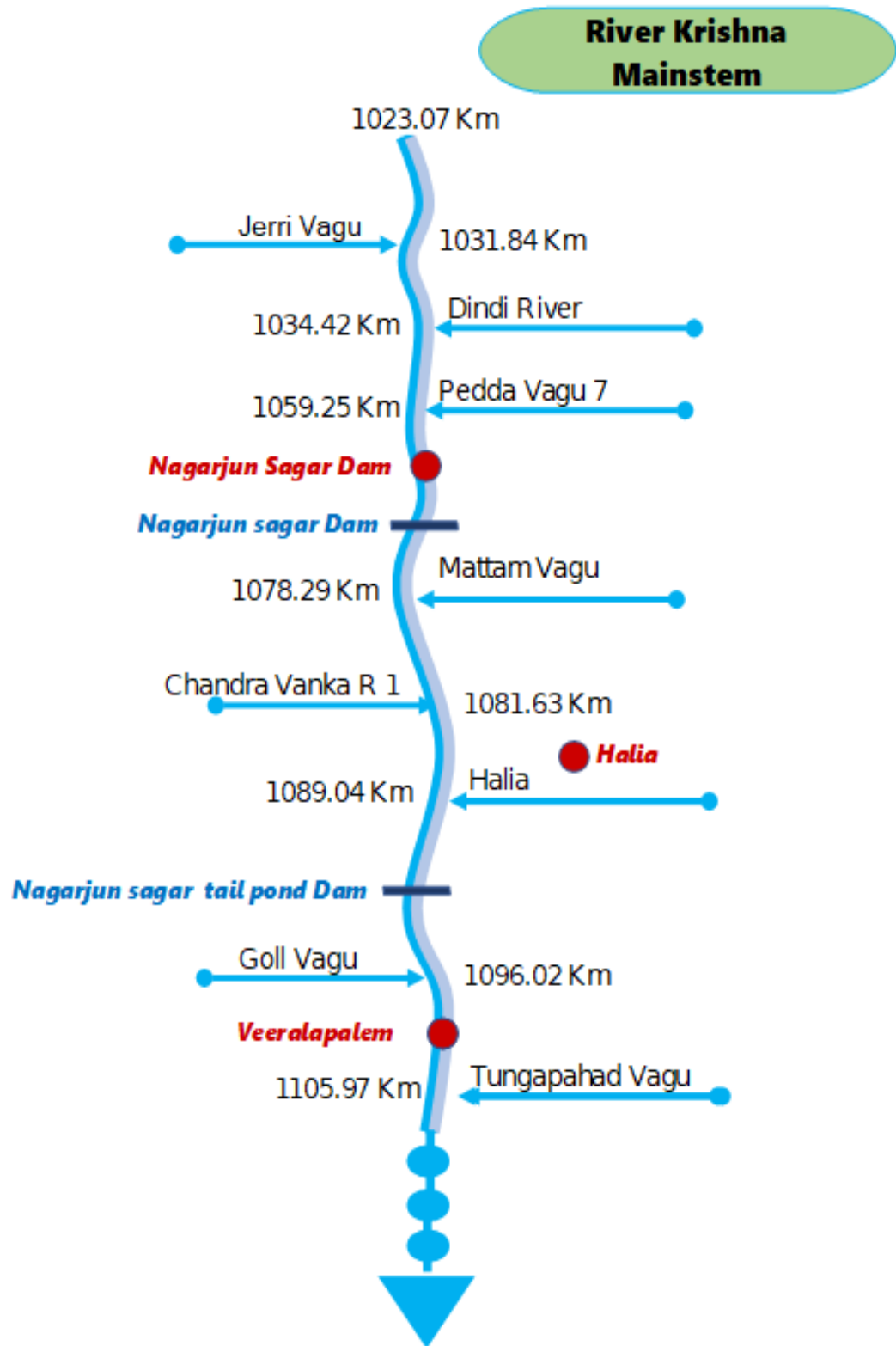


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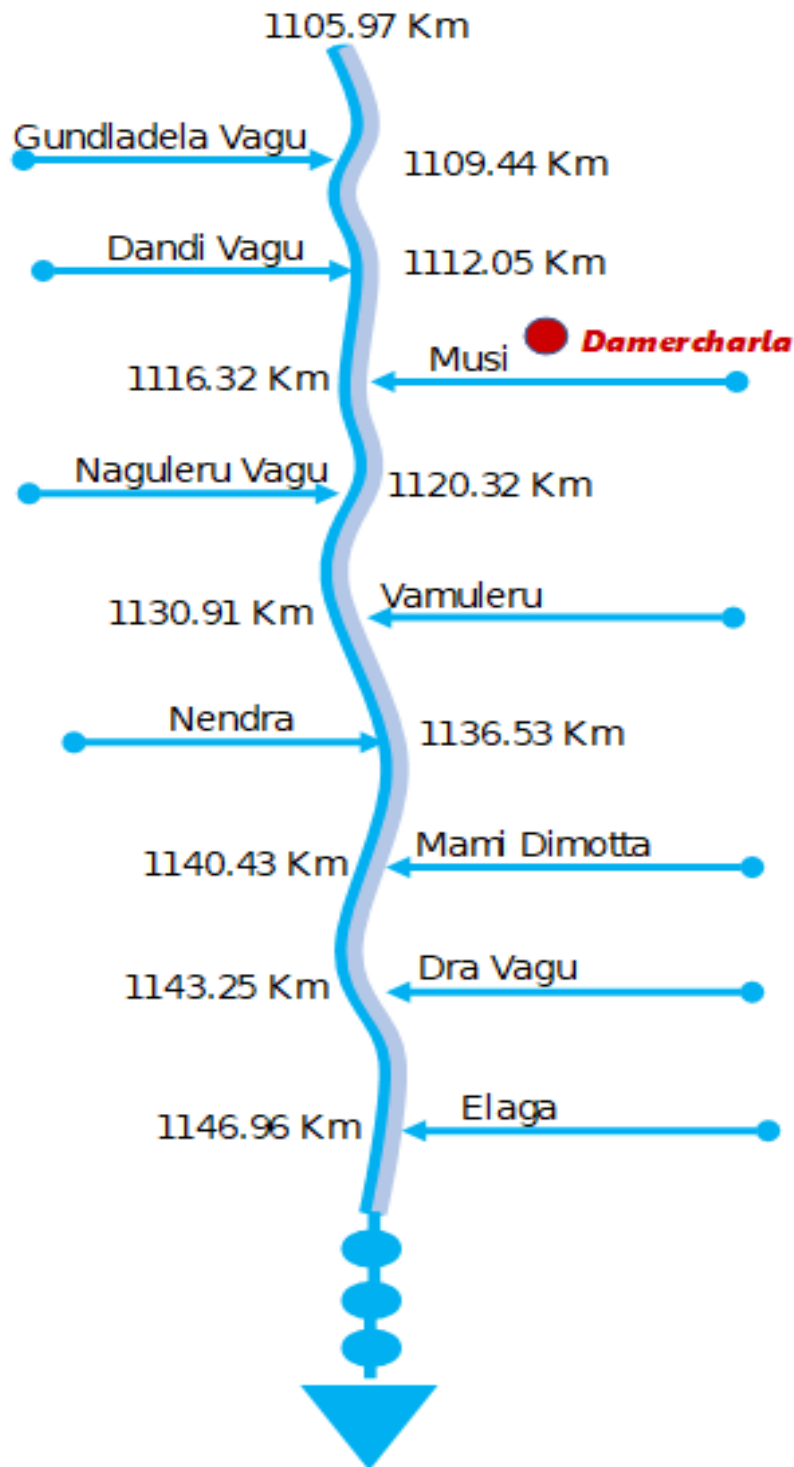
River Krishna Mainstem



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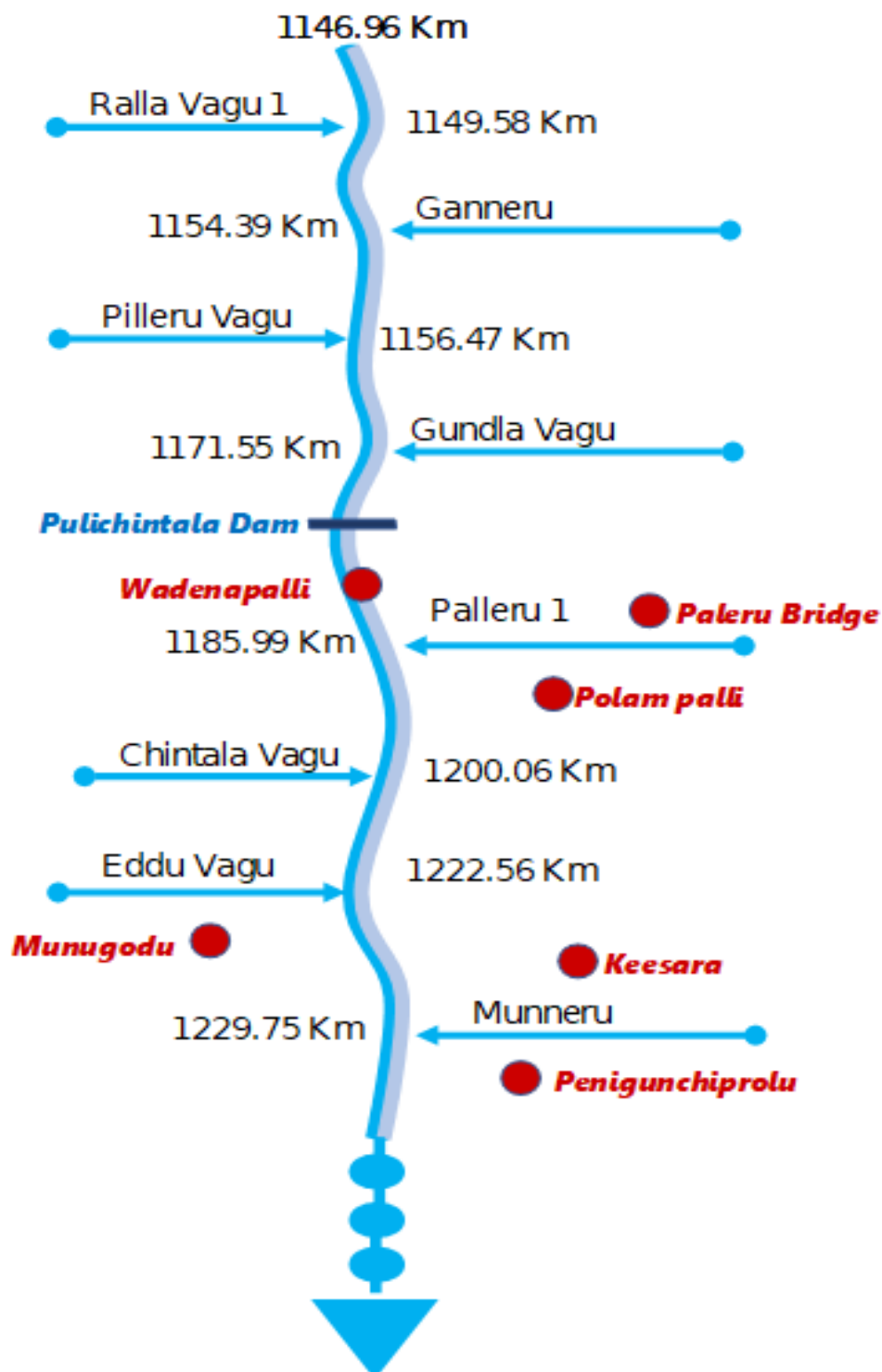


River Krishna Mainstem



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River Krishna Mainstem



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GHATAPRABHA RIVER MAIN STEM FLOW DIAGRAM



River Gataprabha



MALAPRABHA RIVER MAIN STEM FLOW DIAGRAM



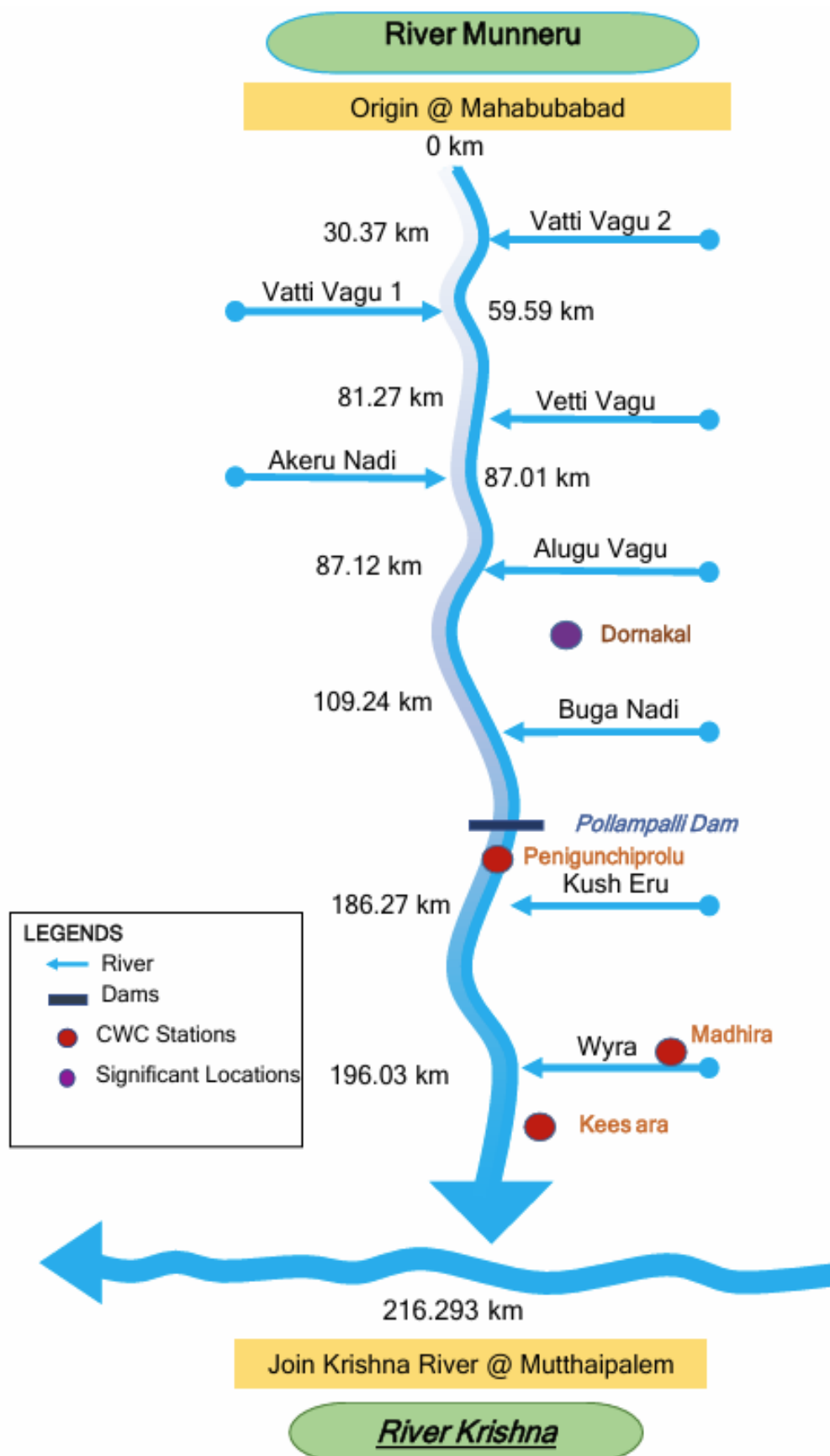
River Malaprabha



MUSI RIVER MAIN STEM FLOW DIAGRAM



MUNNERU RIVER MAIN STEM FLOW DIAGRAM



BHIMA BASIN AND ITS RIVER NETWORK

Upper Bhima Basin UID Code	
River Length (km)	546.031
Basin Area (sq.km.)	46090
Number of Named Rivers	292
Length of Named Rivers (km)	7753.308117

Lower Bhima Basin UID Code	
River Length (km)	329.739
Basin Area (sq.km.)	24271.8
Number of Named Rivers	89
Length of Named Rivers (km)	2847.925828

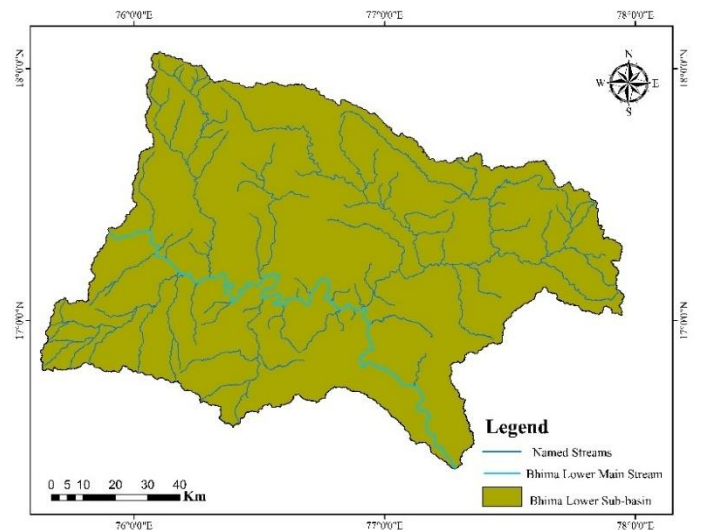
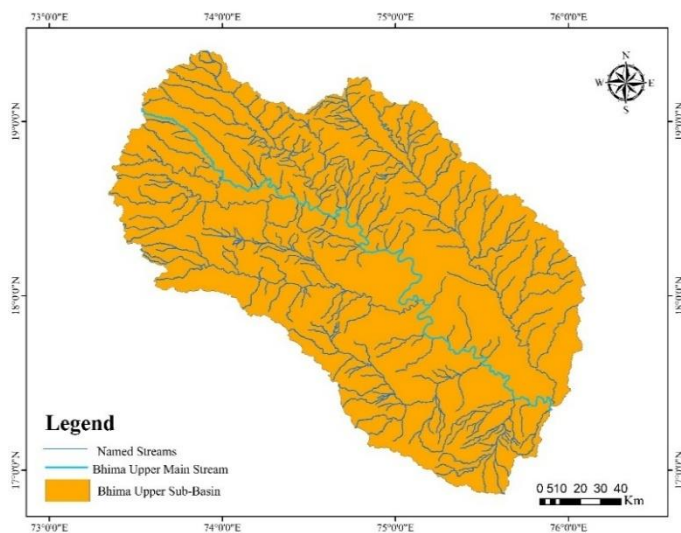
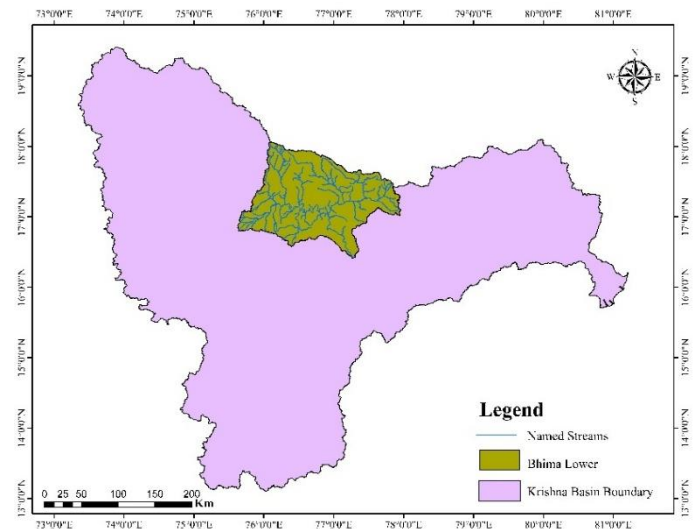
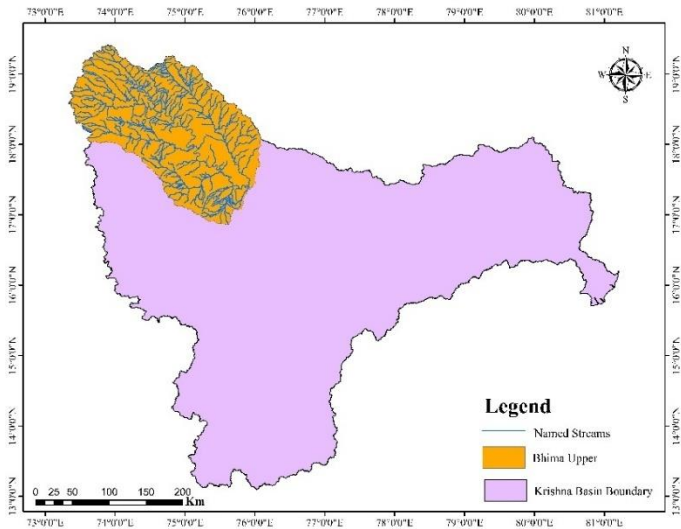


Figure 13: Bhima Basin and its River Network

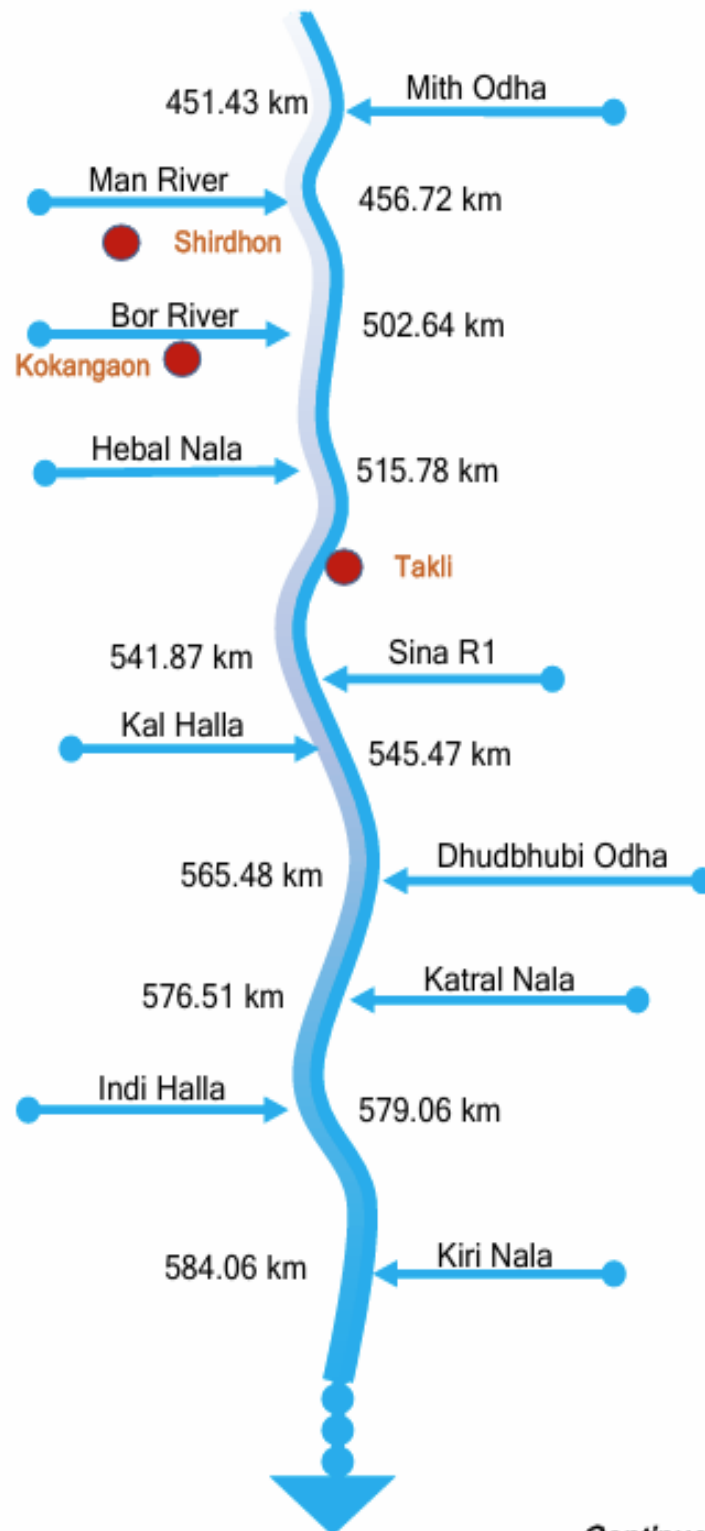
BHIMA RIVER MAIN STEM FLOW DIAGRAM



River Bhima

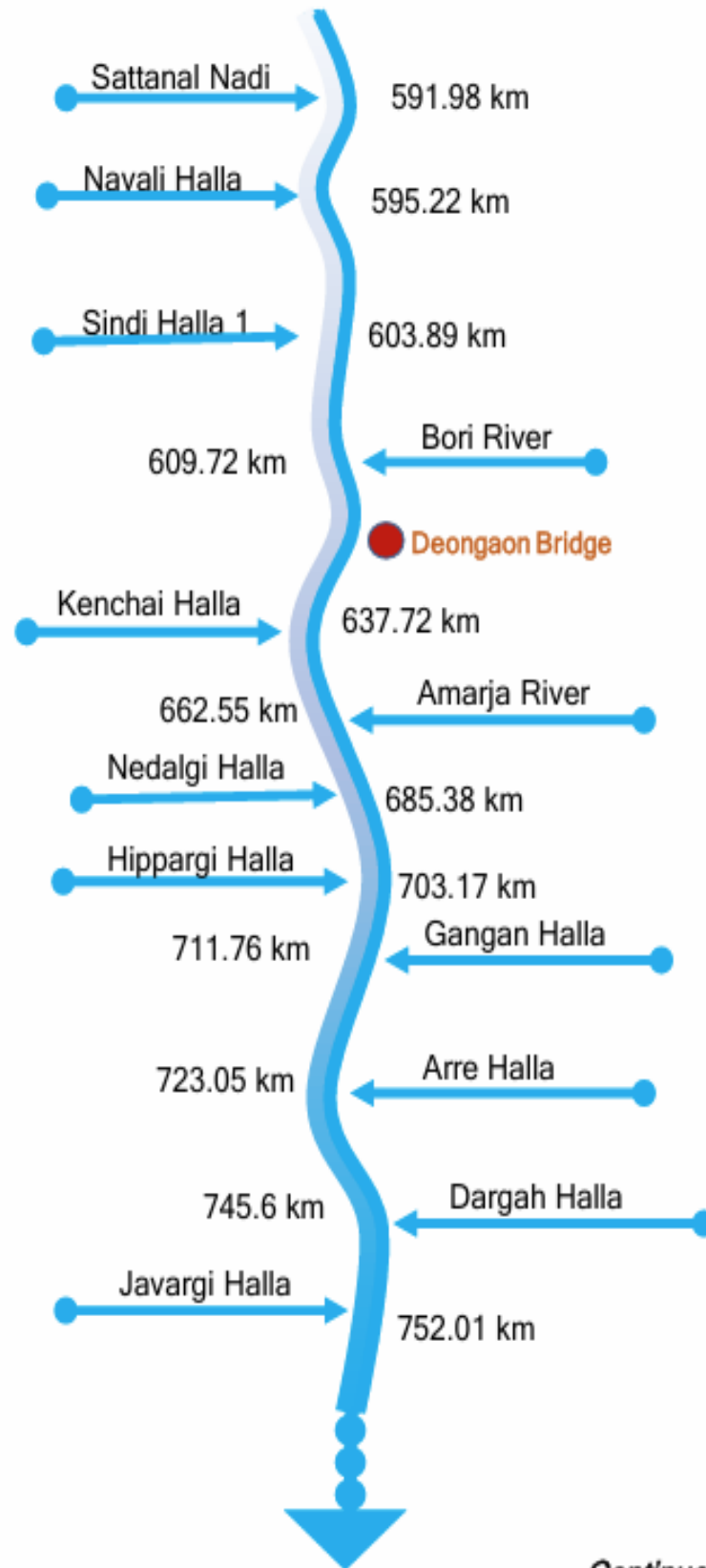


River Bhima



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River Bhima





TUNGABHADRA BASIN AND ITS RIVER NETWORK

Upper Tungabhadra Basin UID Code

River Length (km)	452.288
Basin Area (sq.km.)	28849.1
Number of Named Rivers	106
Length of Named Rivers (km)	3853.168214

Lower Tungabhadra Basin UID Code

River Length (km)	259.096
Basin Area (sq.km.)	42168.3
Number of Named Rivers	106
Length of Named Rivers (km)	4260.569401

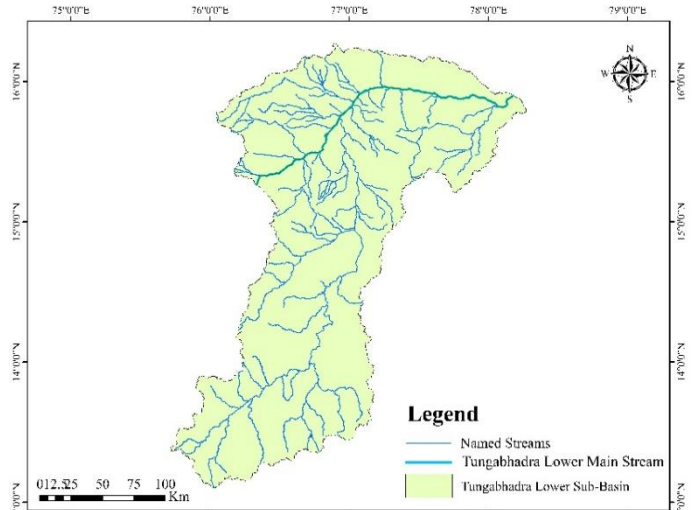
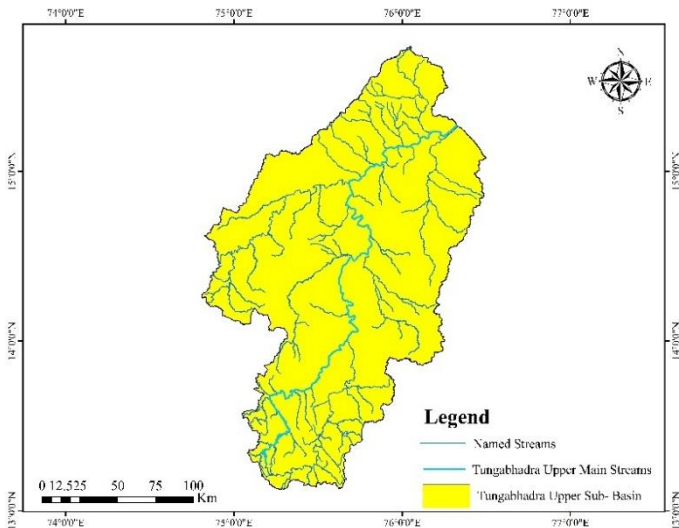
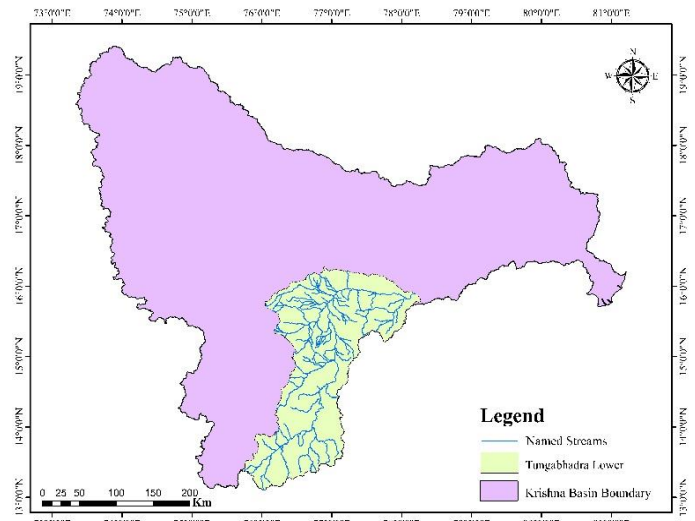
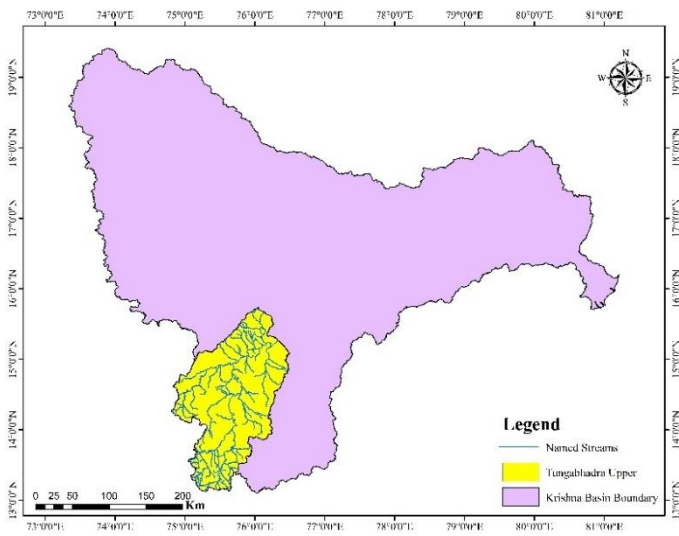
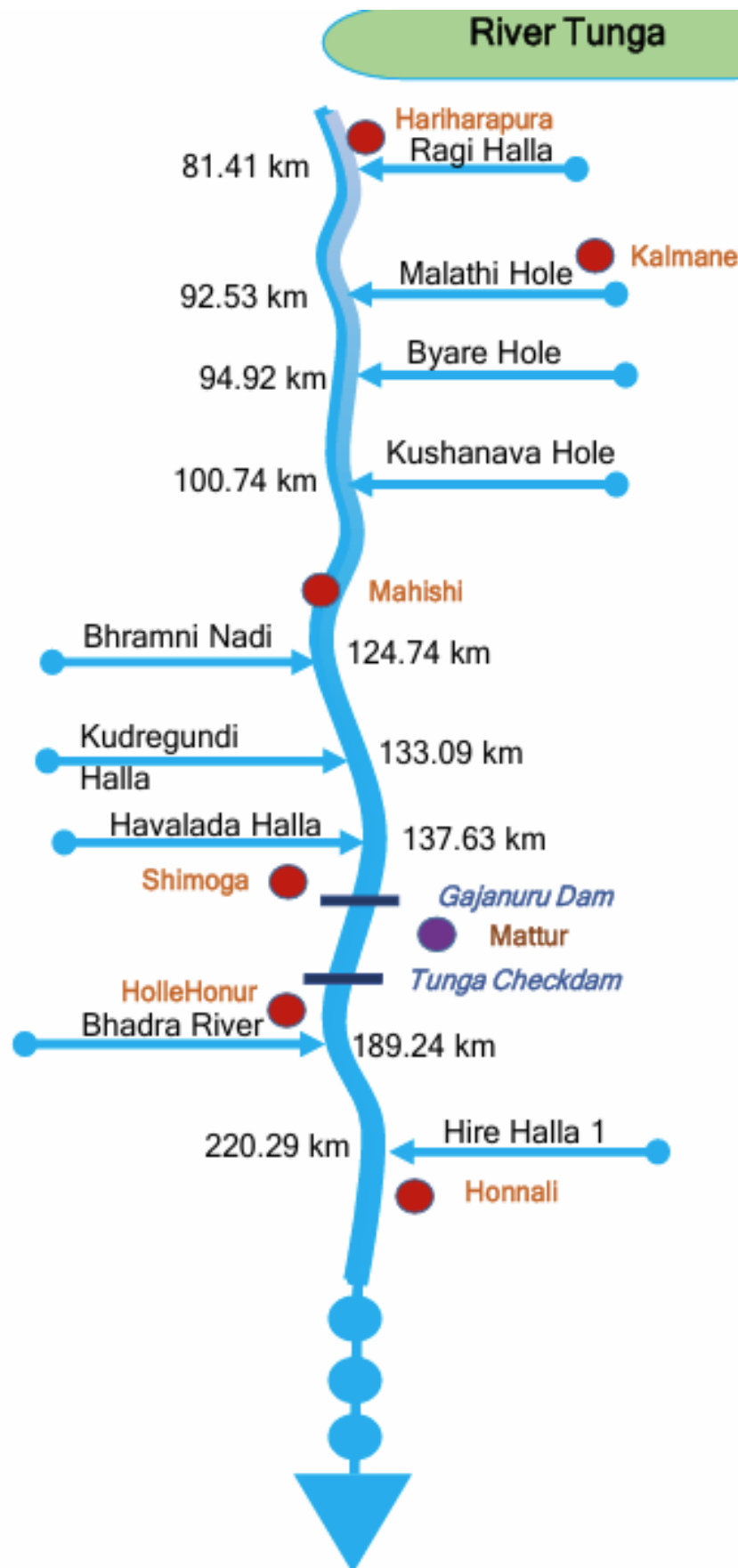


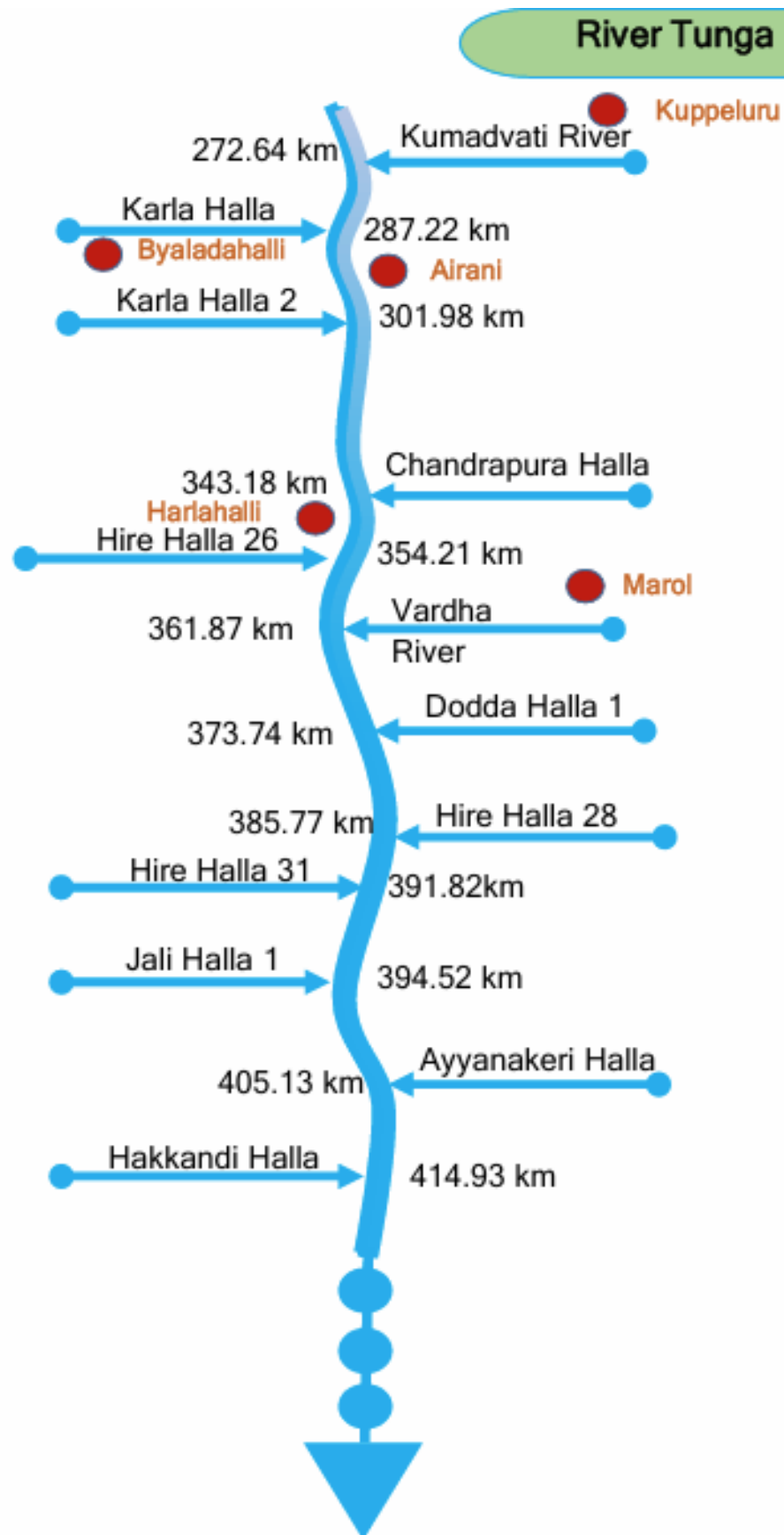
Figure 14: Tungabhadra Basin and its River Network

TUNGABHADRA RIVER MAIN STEM FLOW DIAGRAM





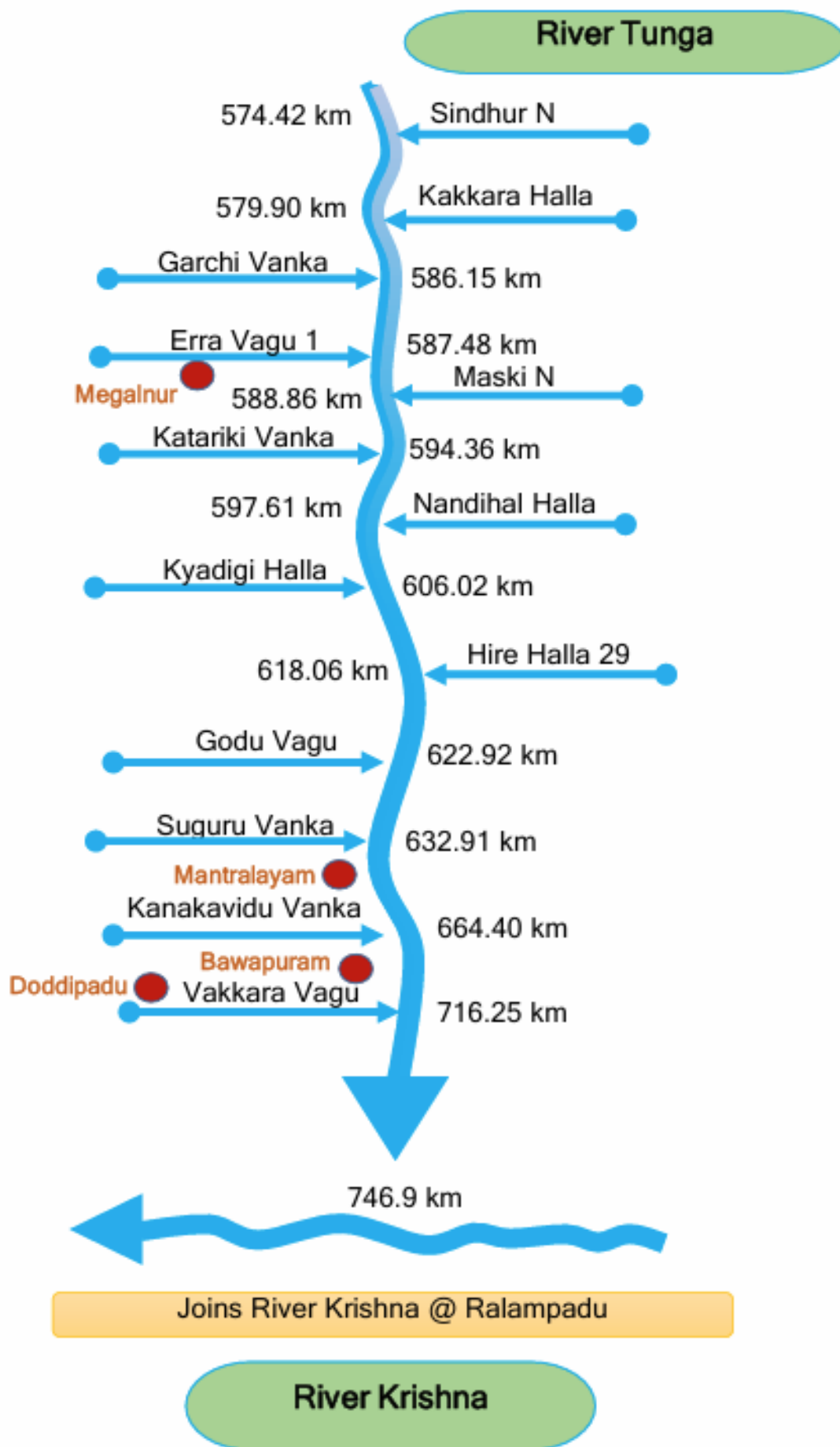
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